



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of:

KONISHI, KENTARO, et al.

Appln. No.: 09/919,989

Group Art Unit: Not yet assigned

Confirmation No.: 6406

Examiner: Not yet assigned

Filed: July 30, 2001

For: TIME-SERIES DATA PROCESSING DEVICE AND METHOD

SUBMISSION OF FORMAL DRAWINGS

Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith please find 73 sheet(s) of formal drawings. The Examiner is respectfully requested to acknowledge receipt of these formal drawings.

Respectfully submitted,

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Registration No. 29,710

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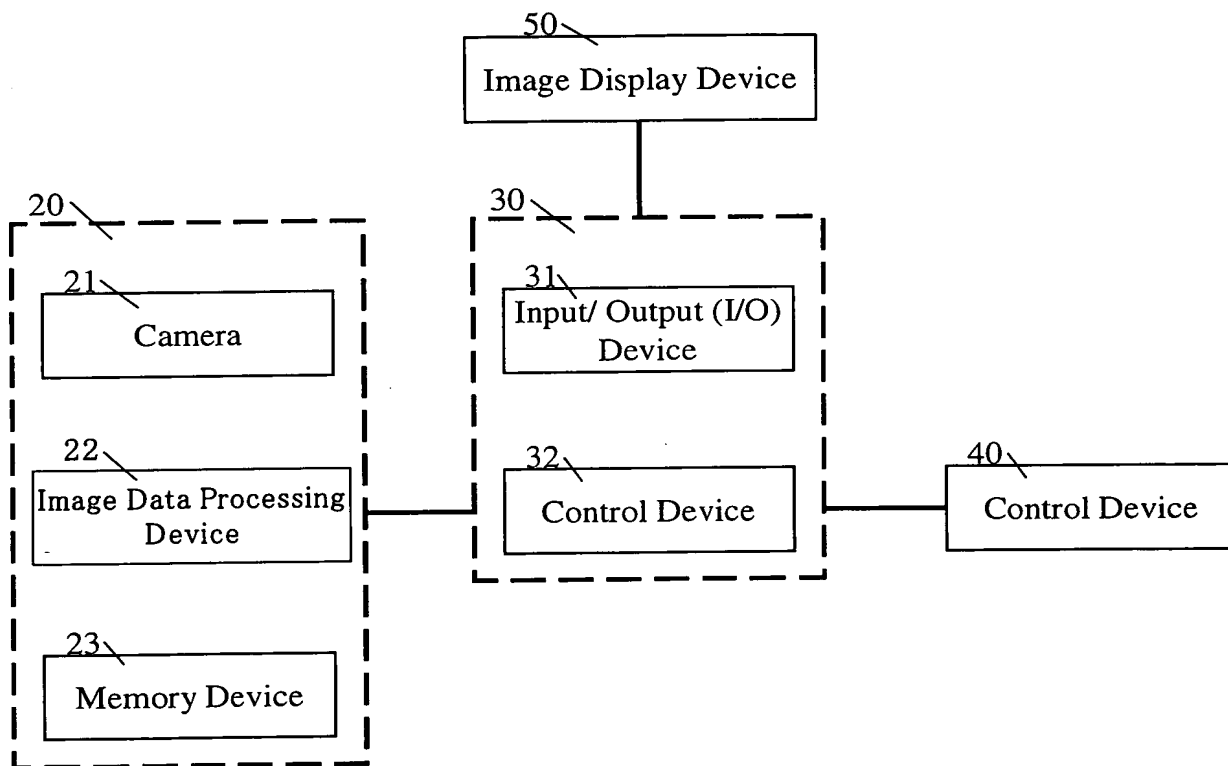
Date: October 4, 2001

APPROVED	FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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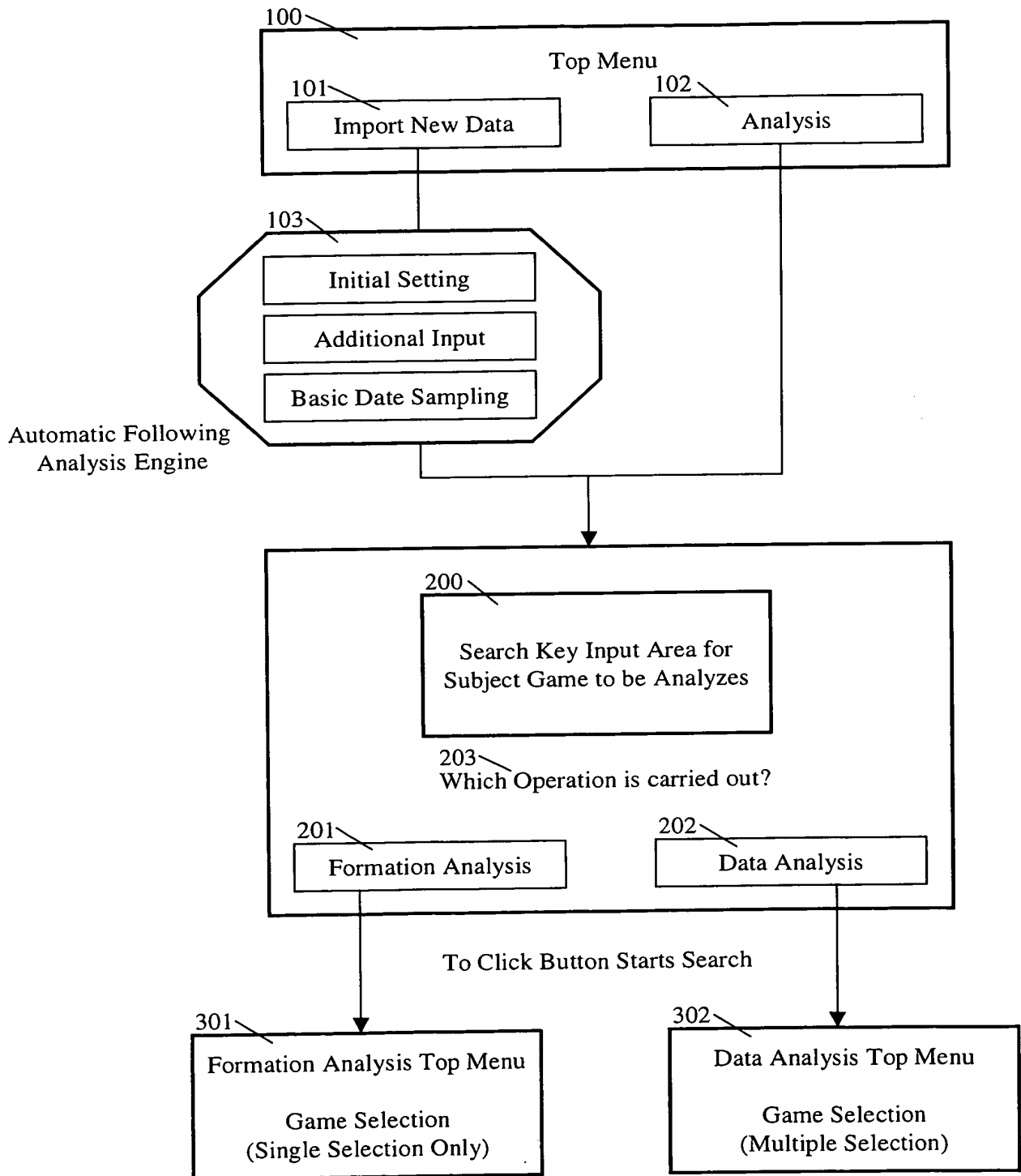


FIG. 1



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FIG. 2



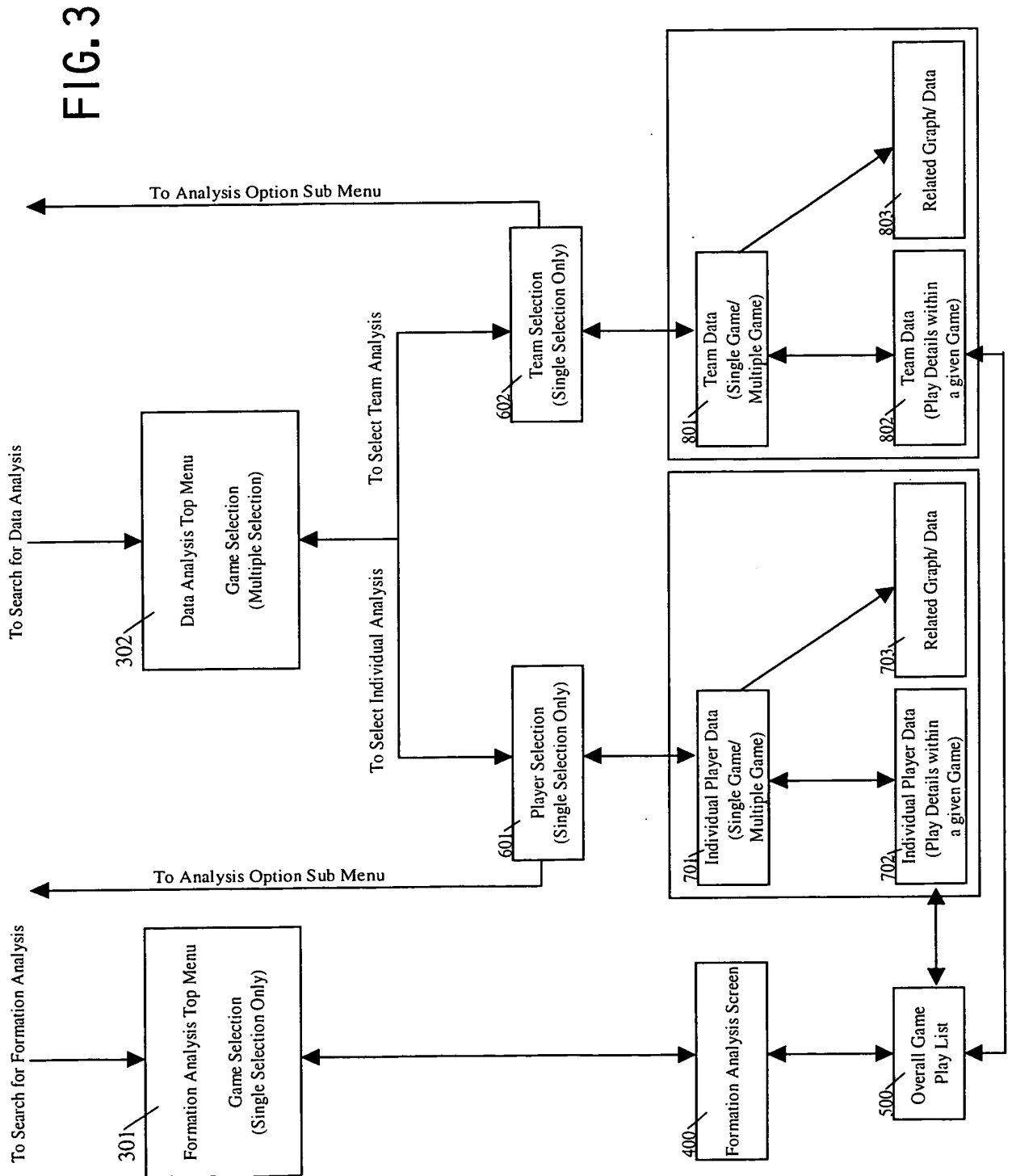


FIG. 4

▼	Player 1	211
▼	Player 2	212
▼	Player 3	213
▼	Team 1	214
▼	Team2	215
▼	Weather	216
▼	Site	217
▼	Date	218
▼	Kick Off Time	219
▼	Number of Attendance	220
Formation Analysis		Data Analysis

FIG. 5

▼	Jo	
▼	Nakata	
▼	Player 3	
▼	Japan National Team	
▼	Team2	
▼	Clear	
▼	Site	
▼	Date	
▼	Kick Off Time	
▼	Number of Attendance	
Formation Analysis		Data Analysis

FIG. 6

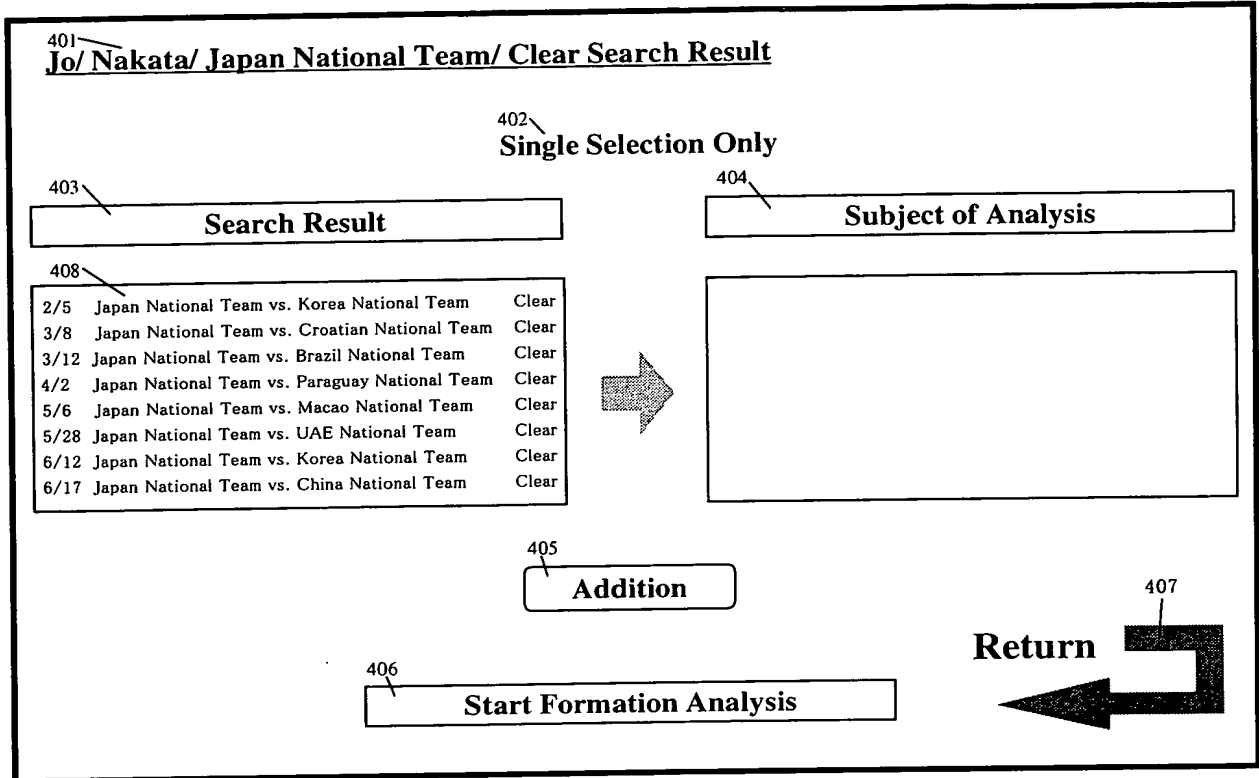


FIG. 7

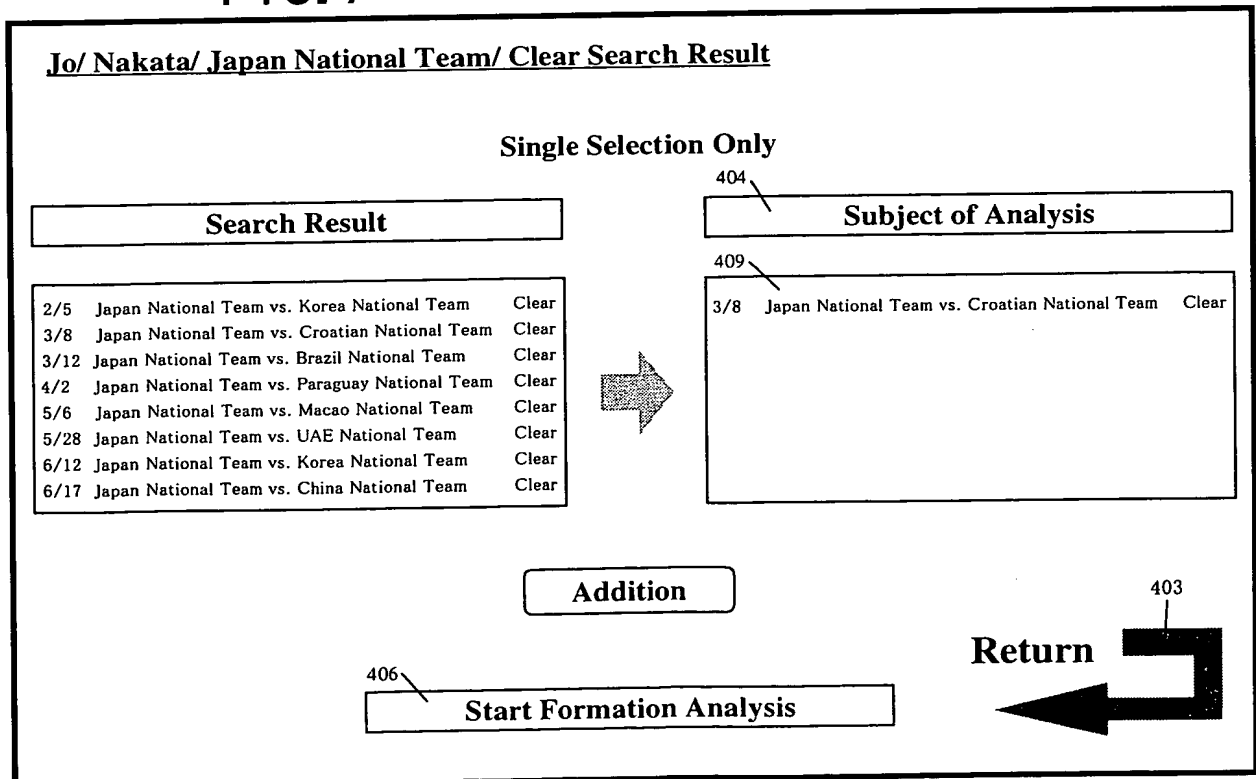
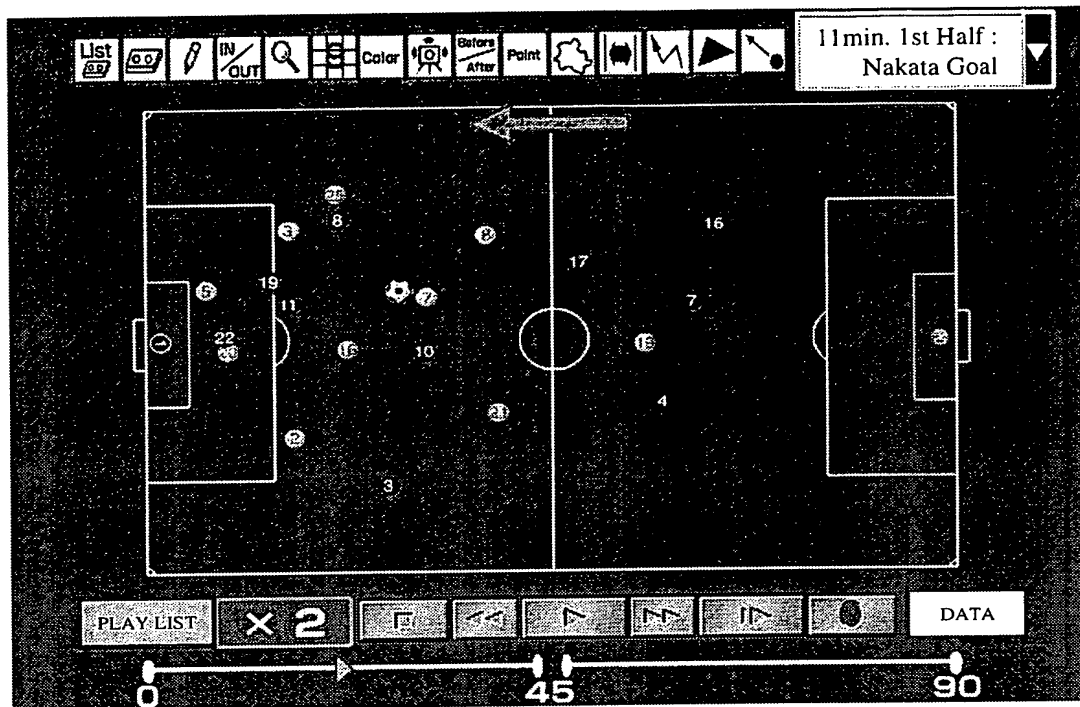


FIG. 8



1000

FIG. 9

Nakata					Kojima				
8					1				
21					32				
MF					GK				
0					0				
x	y	z	Play	Official Record	x	y	z	Play	Official Record
698	343	0	d		35	150	0		
698	343	0			35	150	0		
698	343	0			35	150	0		
698	343	0			35	150	0		
698	343	0			35	150	0		
699	343	0			35	150	0		
699	344	0			35	150	0		
699	345	0			35	150	0		
699	346	0			35	150	0		
699	347	0			35	150	0		
699	348	0	p		35	150	0		
700	349	0			35	150	0		
700	350	0			35	150	0		
700	350	0			35	150	0		
700	350	0			35	150	0		
700	350	0			35	150	0		
700	350	0			35	150	0		
700	350	0			35	150	0		
701	350	0			35	150	0		
701	351	0			35	150	0		
701	352	0			35	150	0		
701	353	0			35	150	0		
701	354	0			35	150	0		
701	355	0			36	150	0		
701	355	0			37	150	0		
701	356	0			38	150	0		
701	356	0			39	150	0		
701	356	0			40	150	0		
701	356	0			40	150	0		
701	356	0			40	150	0		

FIG. 10

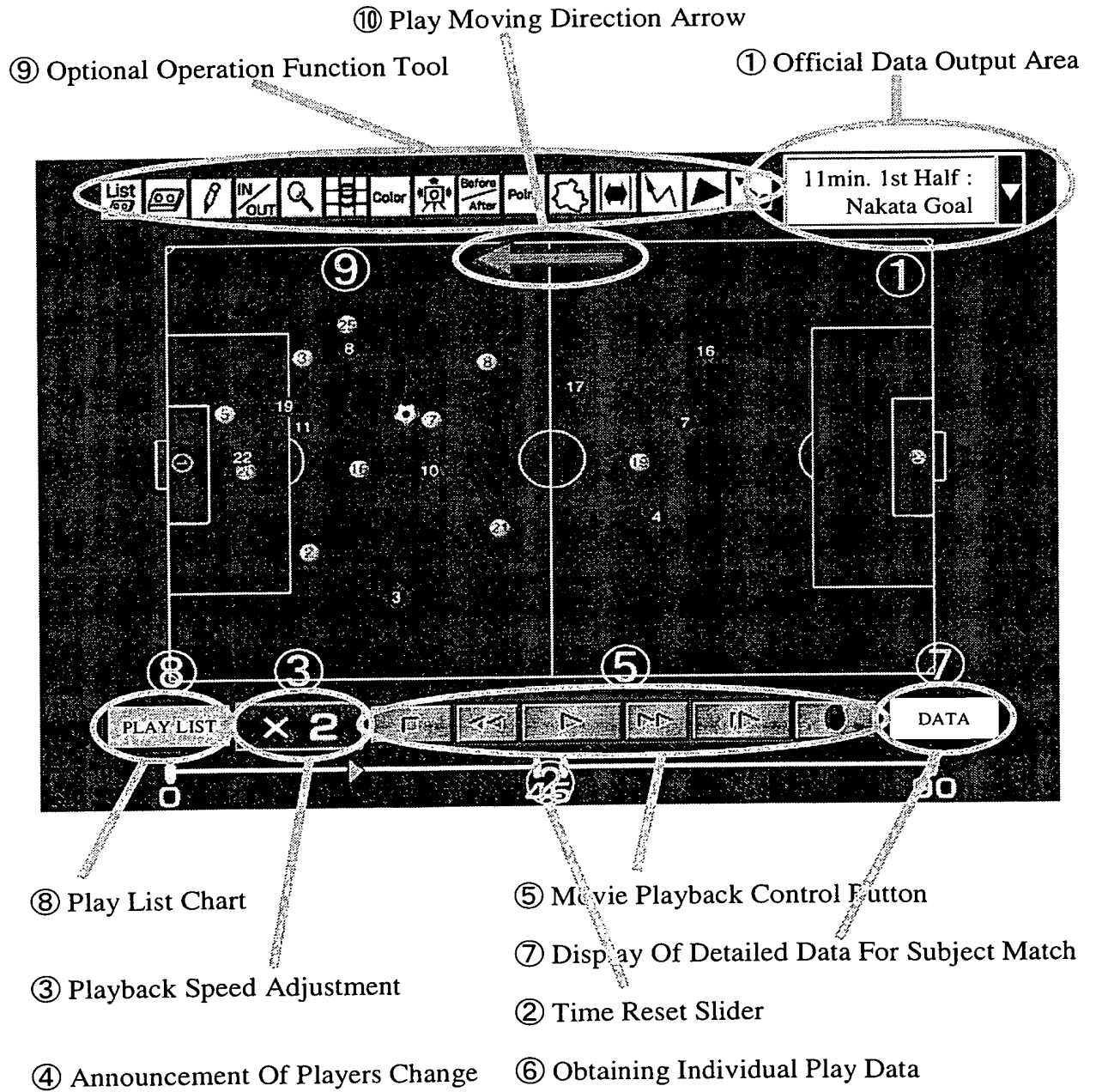


FIG. 11

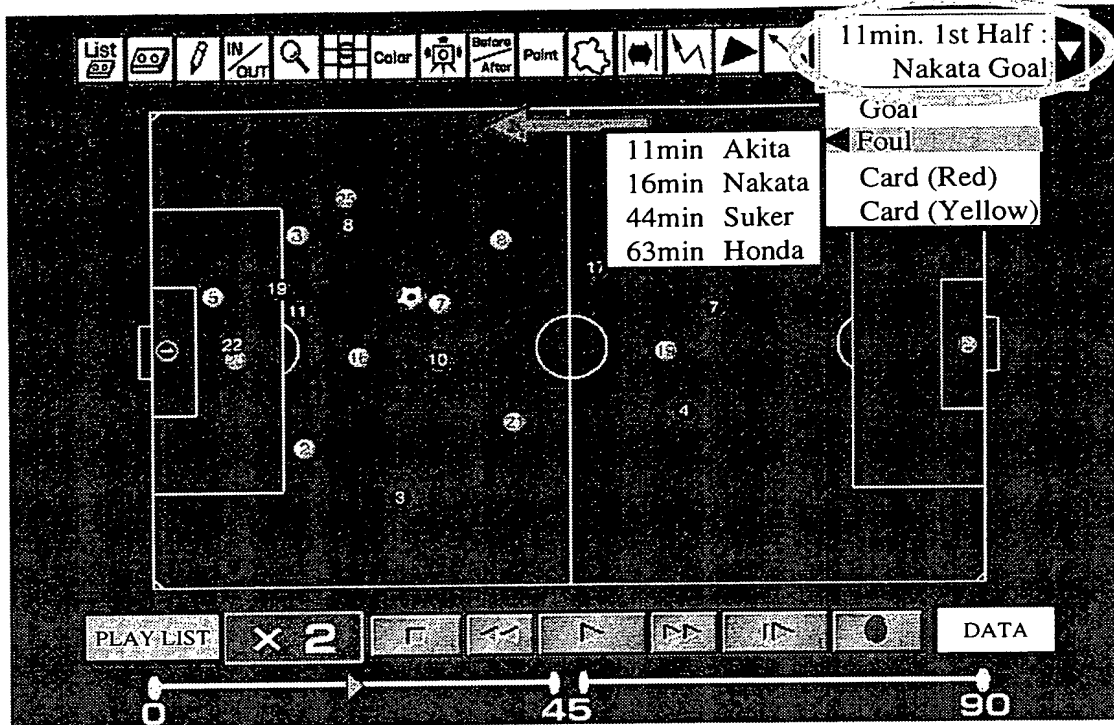
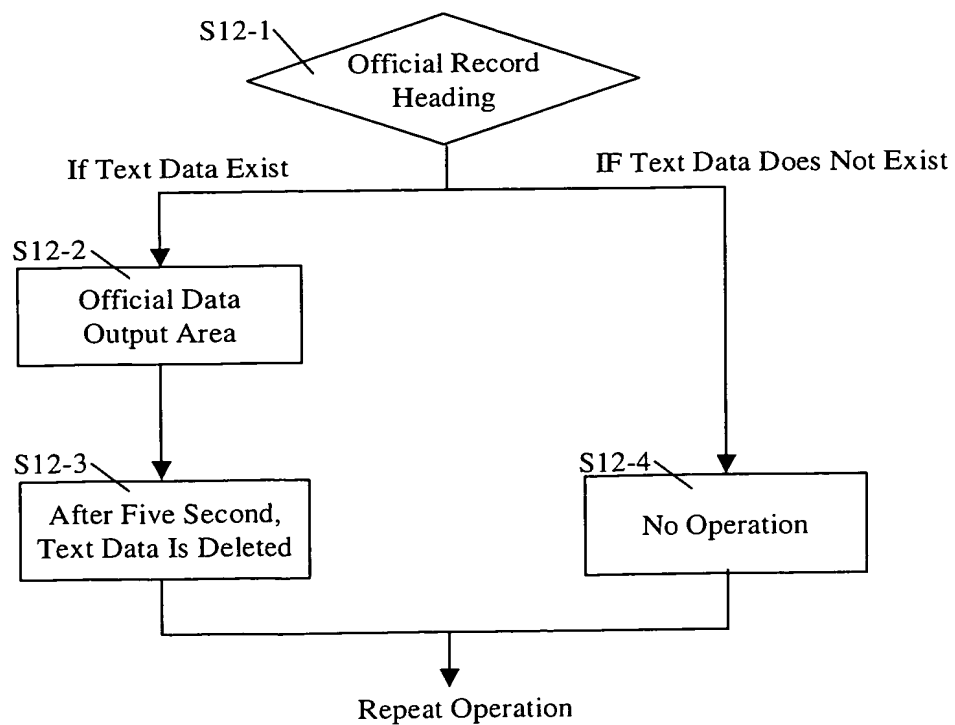


FIG. 12



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FIG. 13

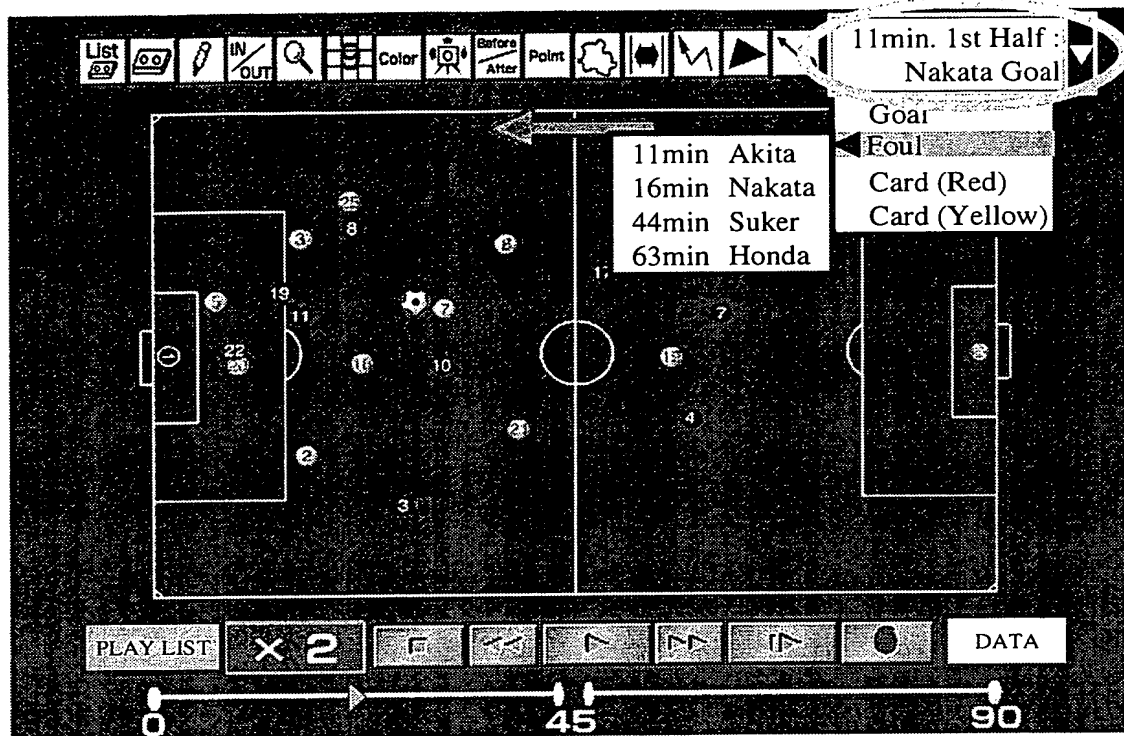
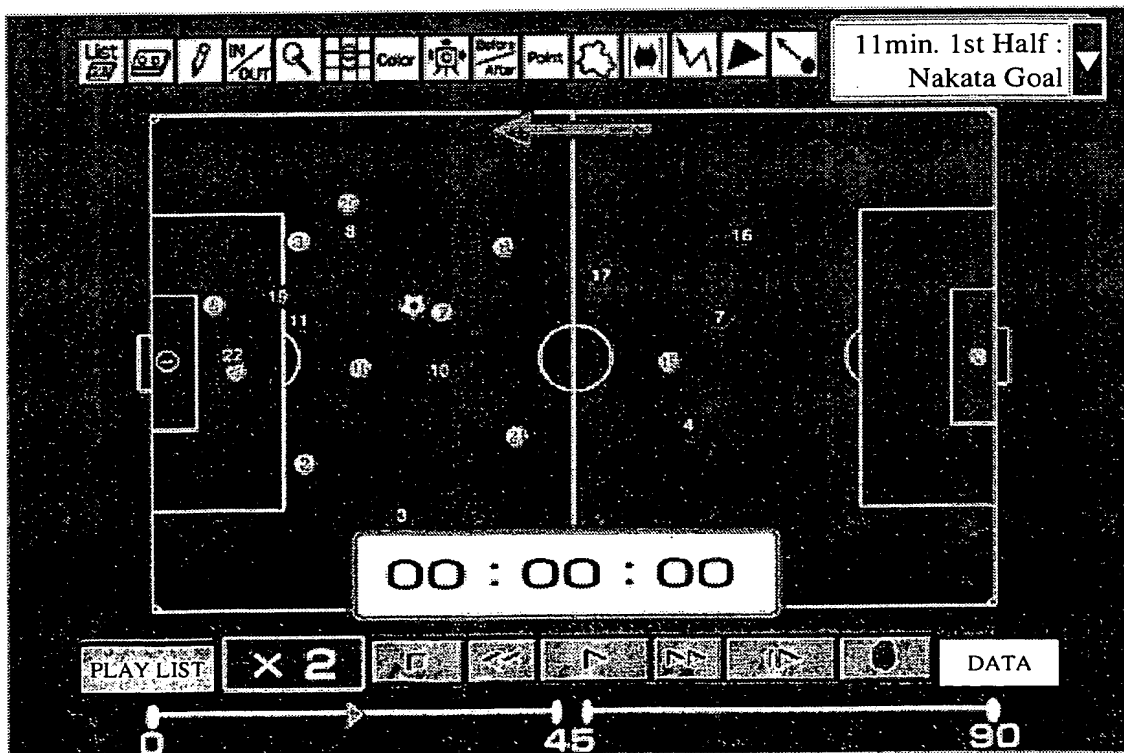


FIG. 14



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FIG. 15

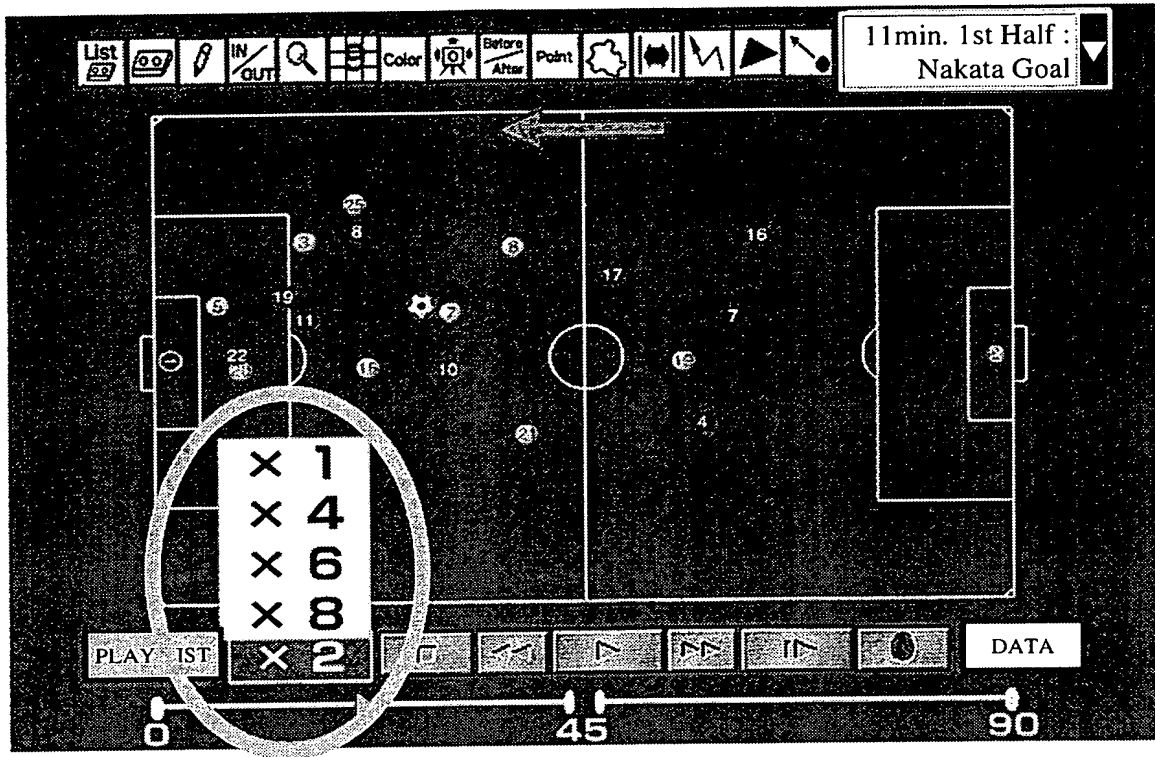
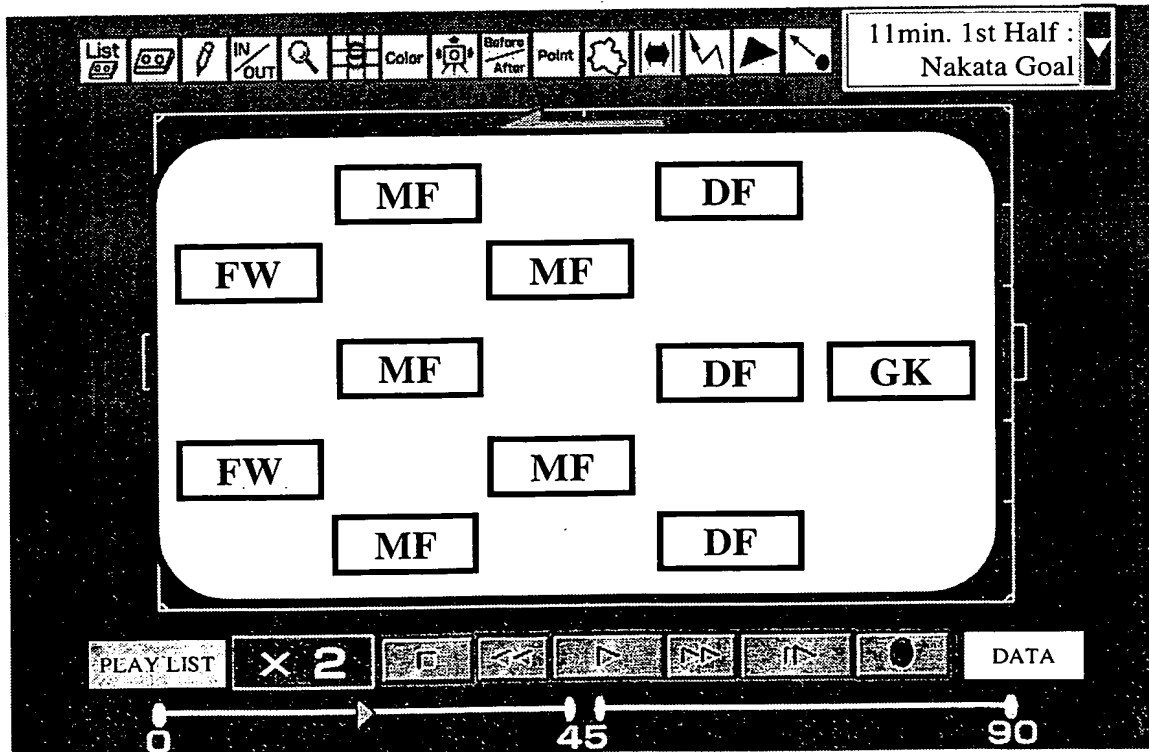


FIG. 16



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FIG. 17

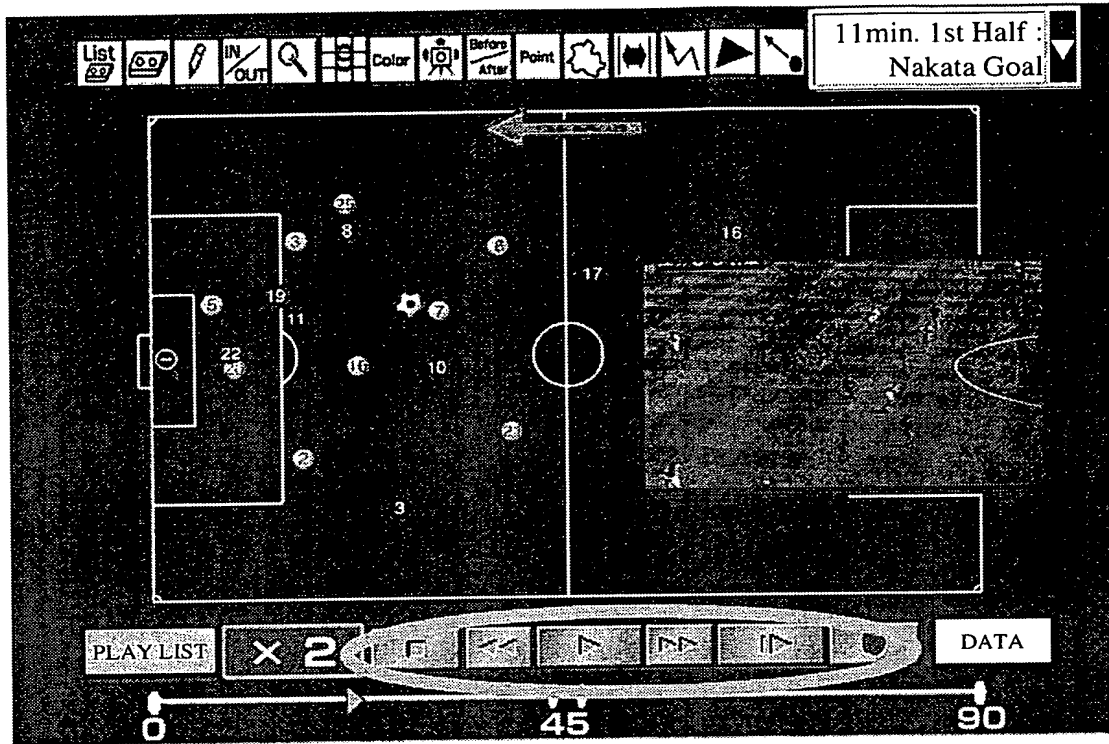


FIG. 18

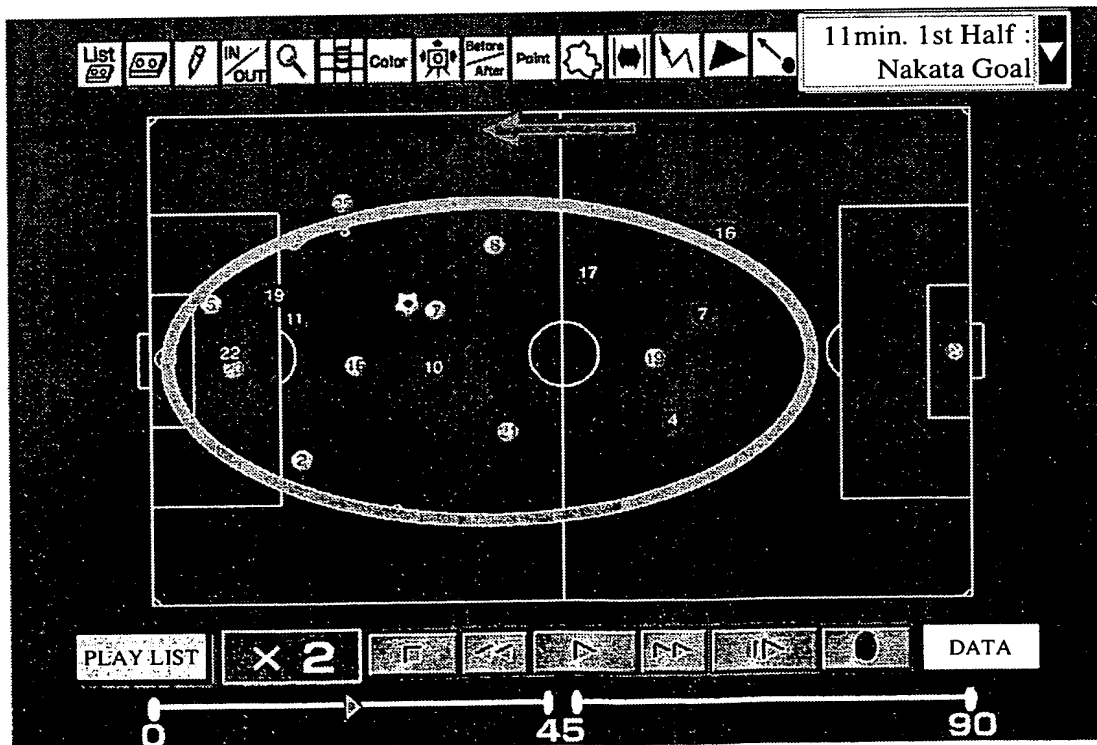
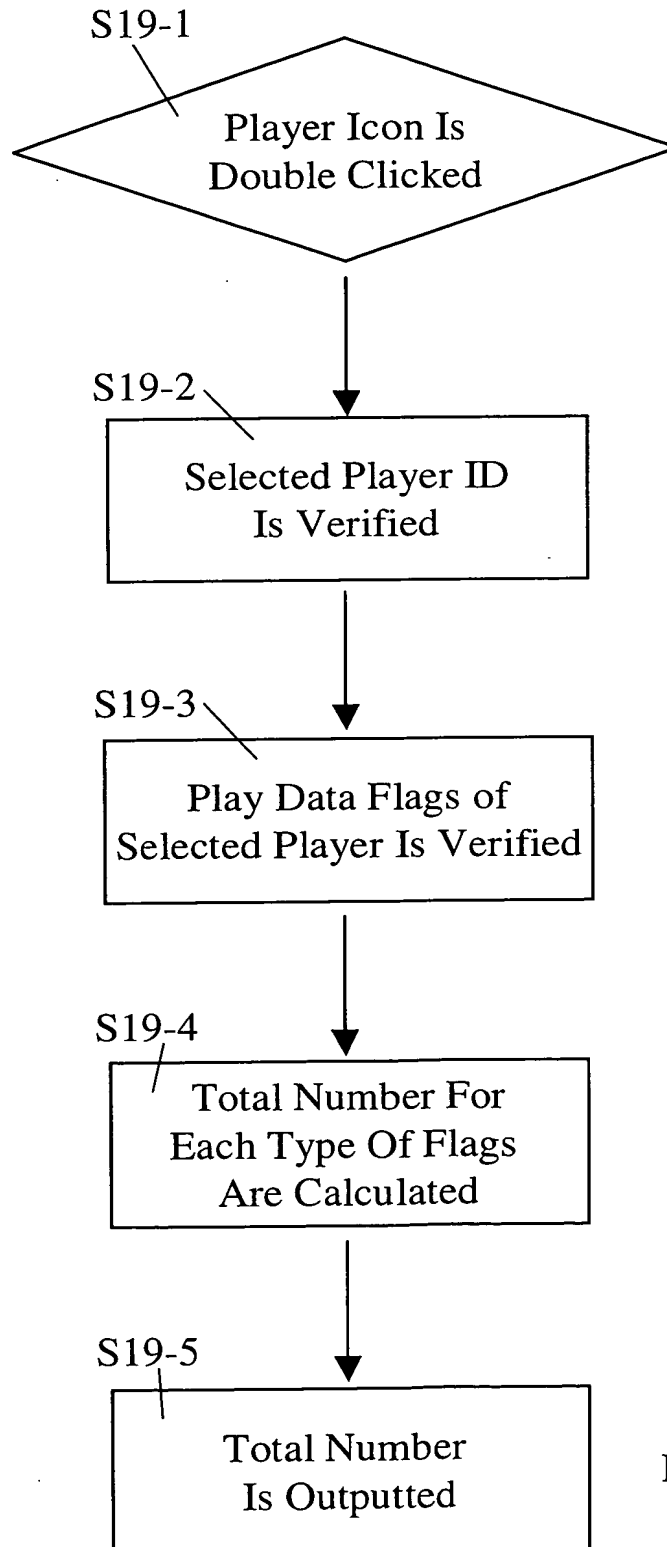
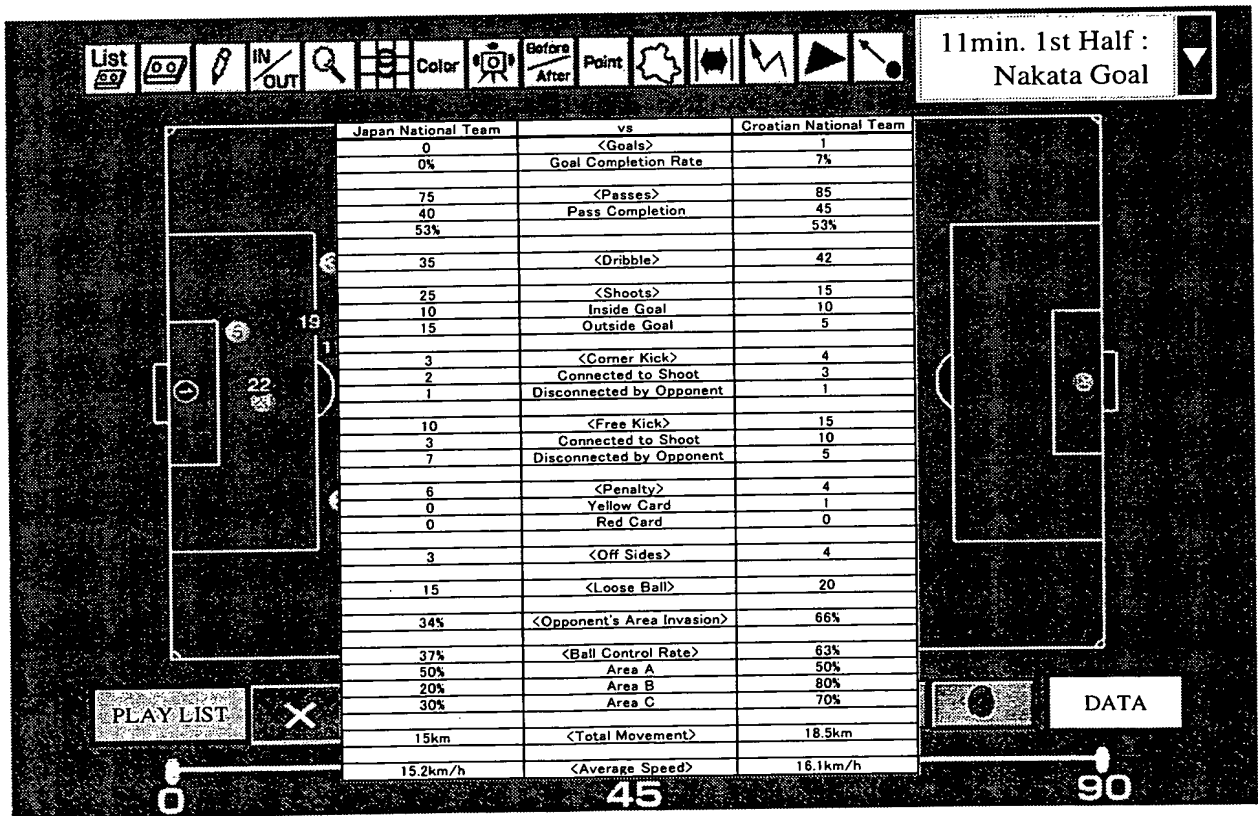


FIG. 19



Data Analysis Area

FIG. 20



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FIG. 21

Japan National Team	vs	Croatian National Team
0	<Goals>	1
0%	Goal Completion Rate	7%
75	<Passes>	85
40	Pass Completion	45
53%		53%
35	<Dribble>	42
25	<Shoots>	15
10	Inside Goal	10
15	Outside Goal	5
3	<Corner Kick>	4
2	Connected to Shoot	3
1	Disconnected by Opponent	1
10	<Free Kick>	15
3	Connected to Shoot	10
7	Disconnected by Opponent	5
6	<Penalty>	4
0	Yellow Card	1
0	Red Card	0
3	<Off Sides>	4
15	<Loose Ball>	20
34%	<Opponent's Area Invasion>	66%
37%	<Ball Control Rate>	63%
50%	Area A	50%
20%	Area B	80%
30%	Area C	70%
15km	<Total Movement>	18.5km
15.2km/h	<Average Speed>	16.1km/h

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

FIG. 23

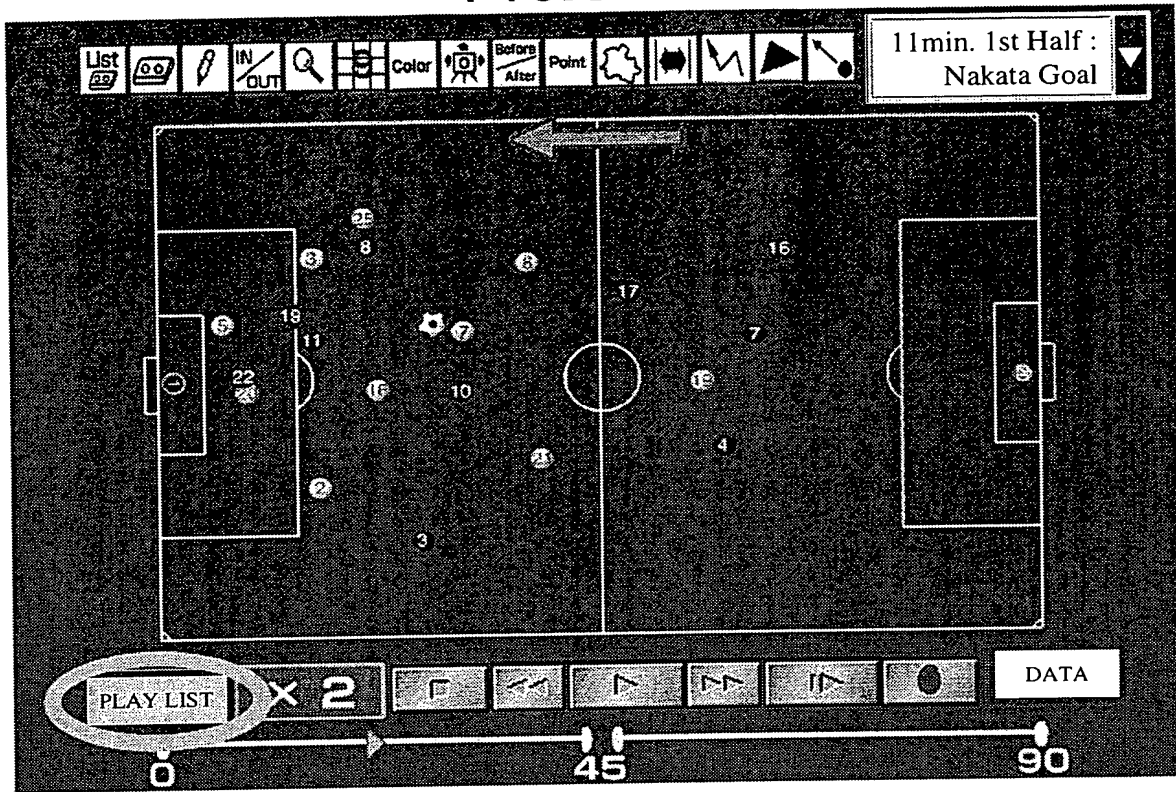
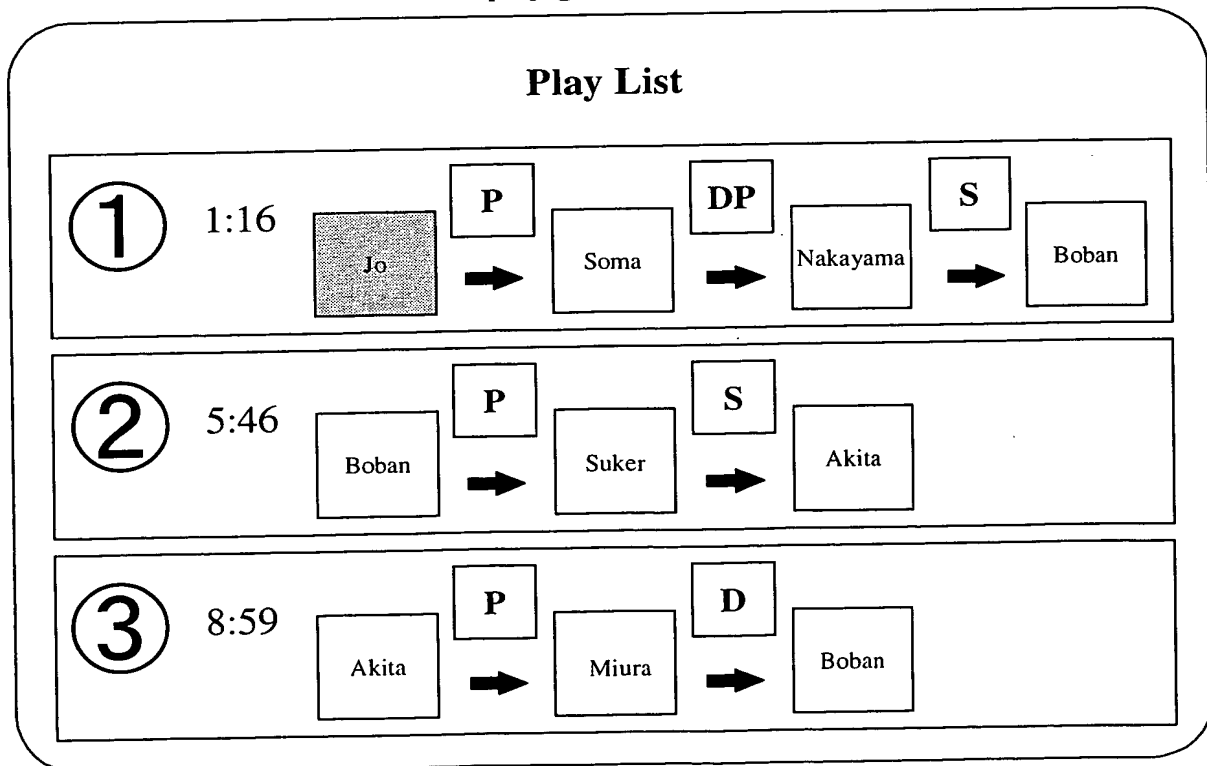


FIG. 24



[illegible]

| | | | | | | | | | |
|---|-----------|----------|-----------|----------|-----------|----------|--------|--------|-----------------|
| ① | Nakata | P
→ | Jo | DP
→ | Nakayama | S
→ | Boban | | |
| ② | Boban | P
→ | Suker | D•P
→ | Kawaguchi | | | | |
| ③ | Kawaguchi | T
→ | Akita | P
→ | Soma | D
→ | Bilic | | |
| ④ | Bilic | D
→ | Jarni | P
→ | Nakata | | | | |
| ⑤ | Nakata | D•P
→ | Yamaguchi | P
→ | Miura | S
→ | Ladic | | |
| ⑥ | Ladic | GK
→ | Simic | P
→ | Nakata | | | | |
| ⑦ | Nakata | P
→ | Nakayama | D•P
→ | x | | | | |
| ⑧ | Ladic | GK
→ | Jarni | P
→ | Boban | D•P
→ | x | | |
| ⑨ | Kawaguchi | GK
→ | Akita | P
→ | Boban | | | | |
| ⑩ | Boban | D•P
→ | Jarni | P
→ | Suker | D•S
→ | G | | |
| ⑪ | Jo | P
→ | Nakata | D•P
→ | Nakayama | P
→ | Jo | S
→ | Ladic PC
→ x |
| ⑫ | Nakata | CK
→ | Yamaguchi | HS
→ | Ladic | | | | |
| ⑬ | Ladic | T
→ | Simic | D•P
→ | Jarni | D
→ | Nakata | | |
| ⑭ | Nakata | P
→ | Jo | S
→ | Ladic | | | | |
| ⑮ | Ladic | T
→ | Simic | S
→ | x | | | | |
| ⑯ | Kawaguchi | GK
→ | Akita | D
→ | Nakata | P
→ | Bilic | | |
| ⑰ | Bilic | T
→ | Jarni | P
→ | Nakata | | | | |
| ⑱ | Nakata | P
→ | Yamaguchi | P
→ | Nakata | P
→ | Ladic | | |
| ⑲ | Ladic | GK
→ | Simic | D
→ | Nakata | | | | |
| ⑳ | Nakata | D•P
→ | Nakayama | S
→ | x | | | | |

FIG. 27

| | | | | | | | | | |
|---|-----------|----------|-----------|----------|----------|--------|-------|---------|----------------------------|
| ① | Nakata | P
→ | Jo | DP
→ | Nakayama | S
→ | Boban | | |
| ② | Nakata | D•P
→ | Yamaguchi | P
→ | Miura | S
→ | Ladic | | |
| ③ | Nakata | P
→ | Nakayama | D•S
→ | x | | | | |
| ④ | Jo | P
→ | Nakata | D•P
→ | Nakayama | P
→ | Jo | S
→ | Ladic
→
PC
→
x |
| ⑤ | Nakata | CK
→ | Yamaguchi | HS
→ | Ladic | | | | |
| ⑥ | Nakata | P
→ | Jo | S
→ | Ladic | | | | |
| ⑦ | Kawaguchi | GK
→ | Akita | D
→ | Nakata | P
→ | Bilic | | |
| ⑧ | Nakata | P
→ | Yamaguchi | P
→ | Nakata | P
→ | Ladic | | |
| ⑨ | Nakata | D•P
→ | Nakayama | S
→ | x | | | | |
| ⑩ | Kawaguchi | GK
→ | Nakata | P
→ | Boban | P
→ | | | |
| ⑪ | Jo | P
→ | Nakata | D•P
→ | Nakayama | S
→ | Ladic | PC
→ | x
→
x |
| ⑫ | Nakata | CK
→ | Nakayama | S
→ | Ladic | | | | |
| ⑬ | Nakata | P
→ | Jo | S
→ | Ladic | | | | |

FIG. 28

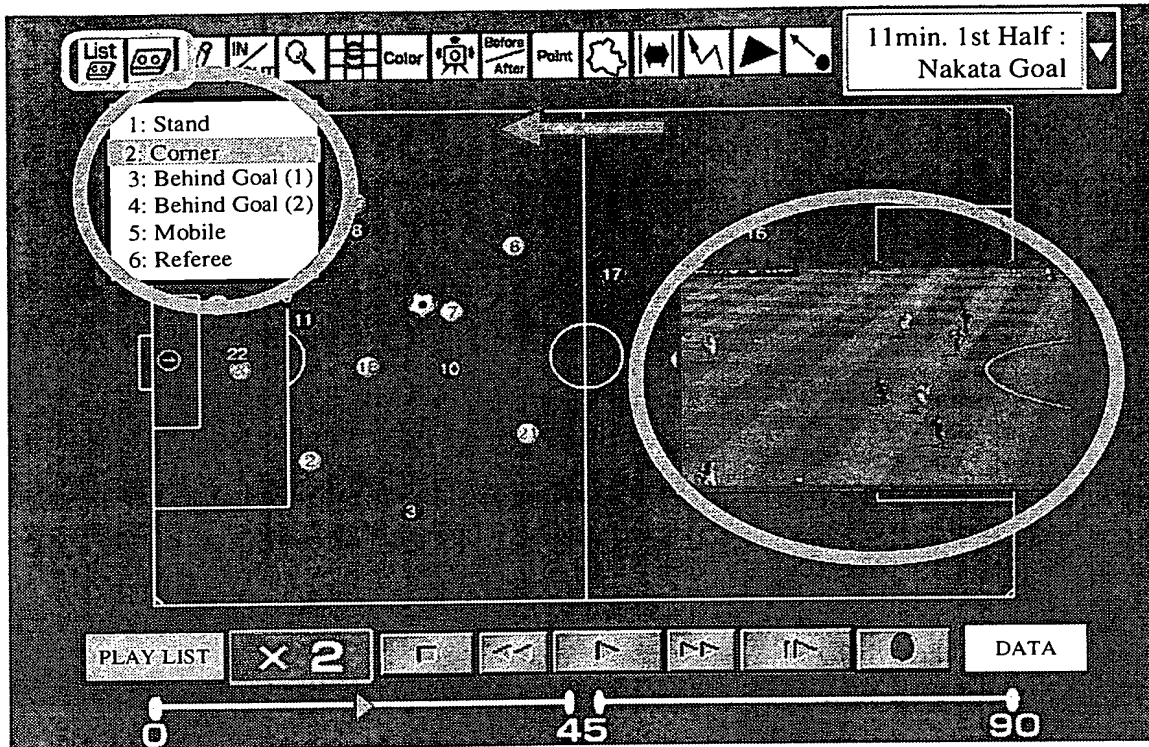
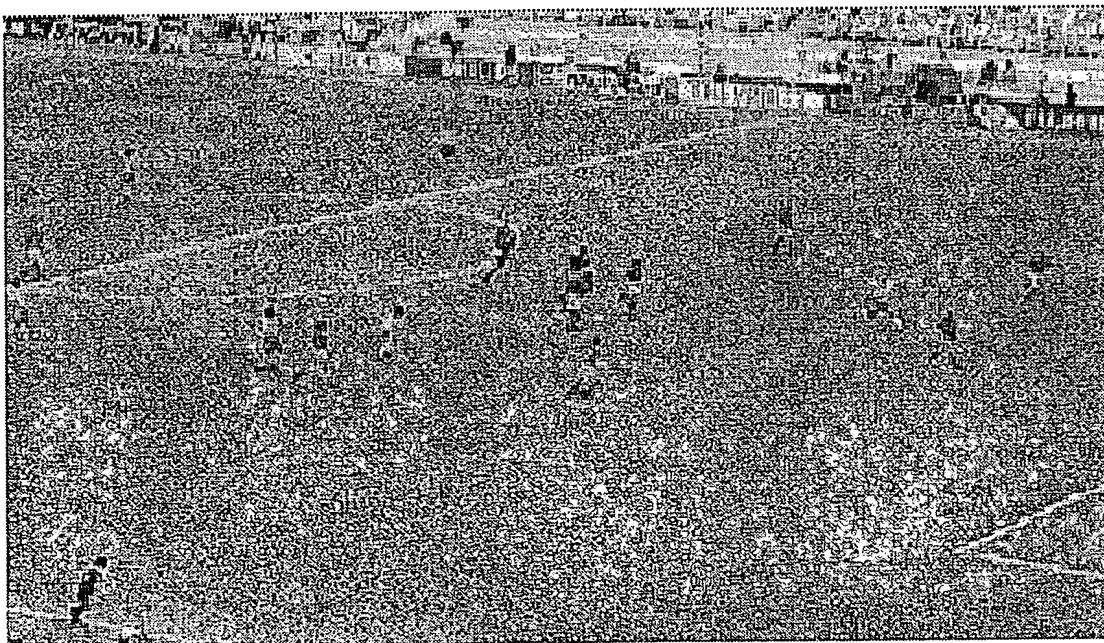


FIG. 29



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FIG. 31

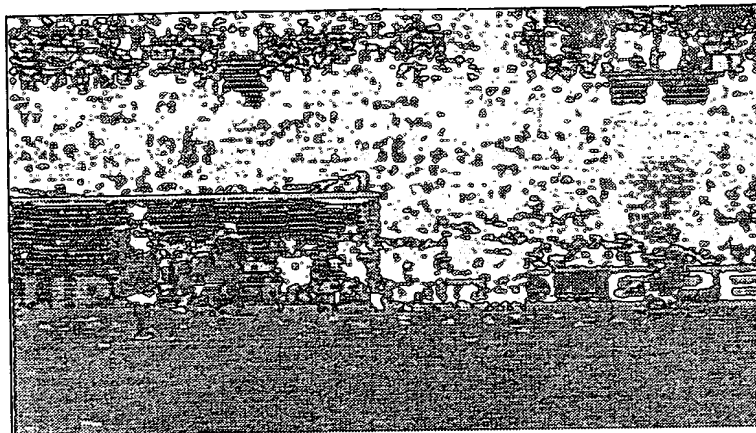
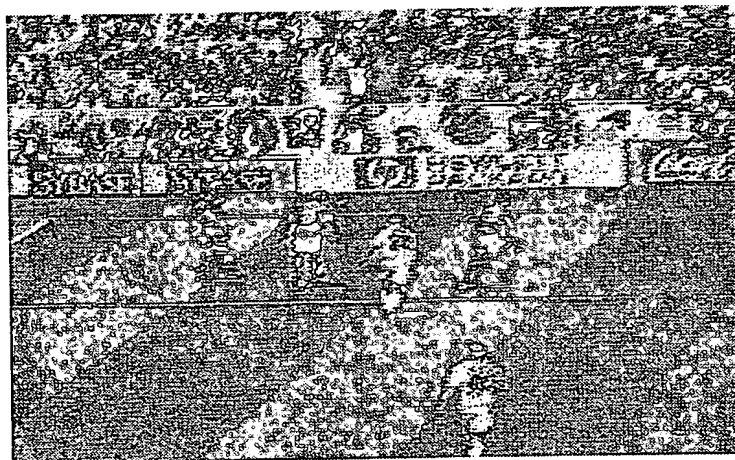


FIG. 32



FIG. 33



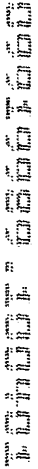
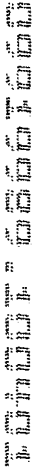
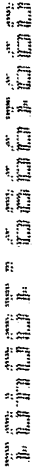
[illegible][illegible][illegible]

FIG. 37

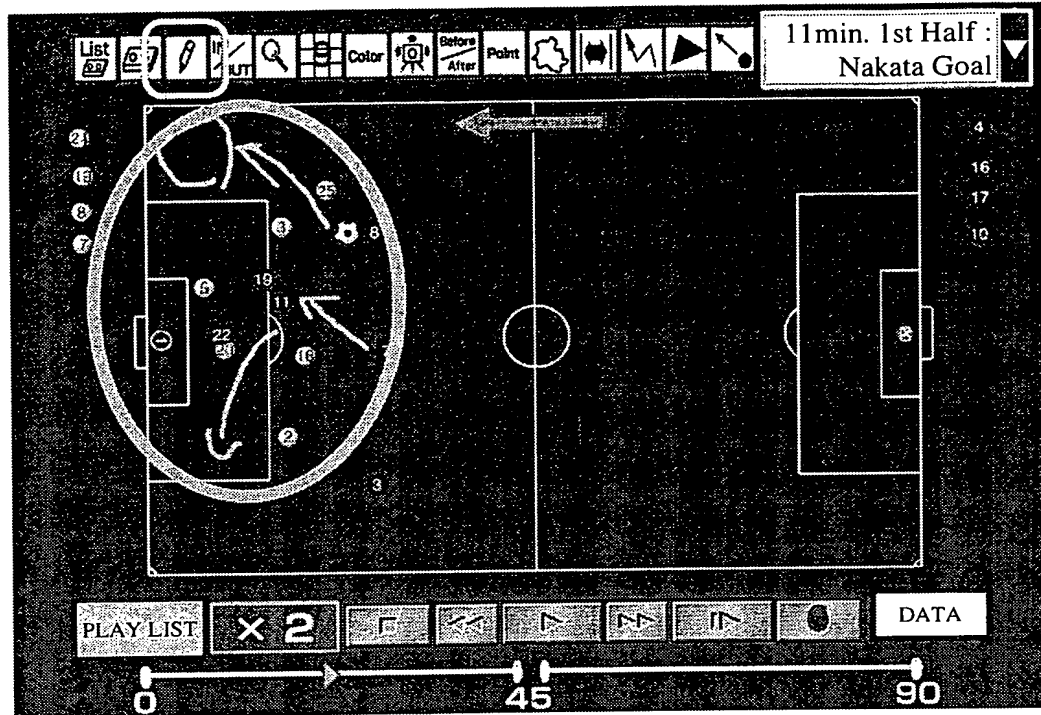
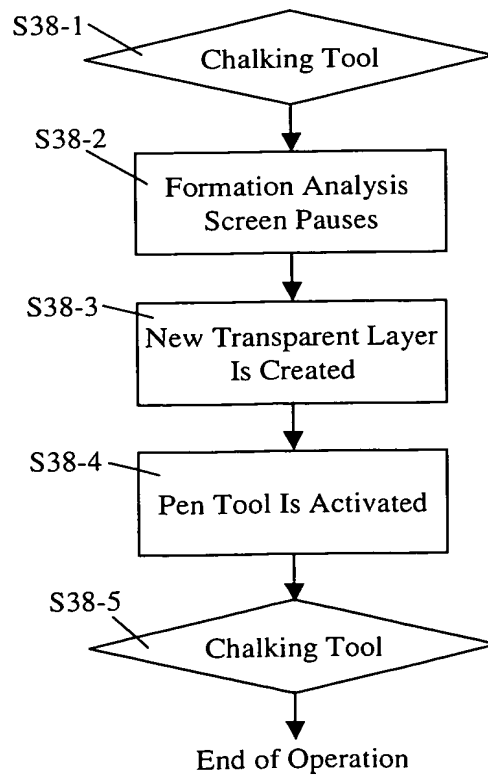


FIG. 38



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FIG. 39

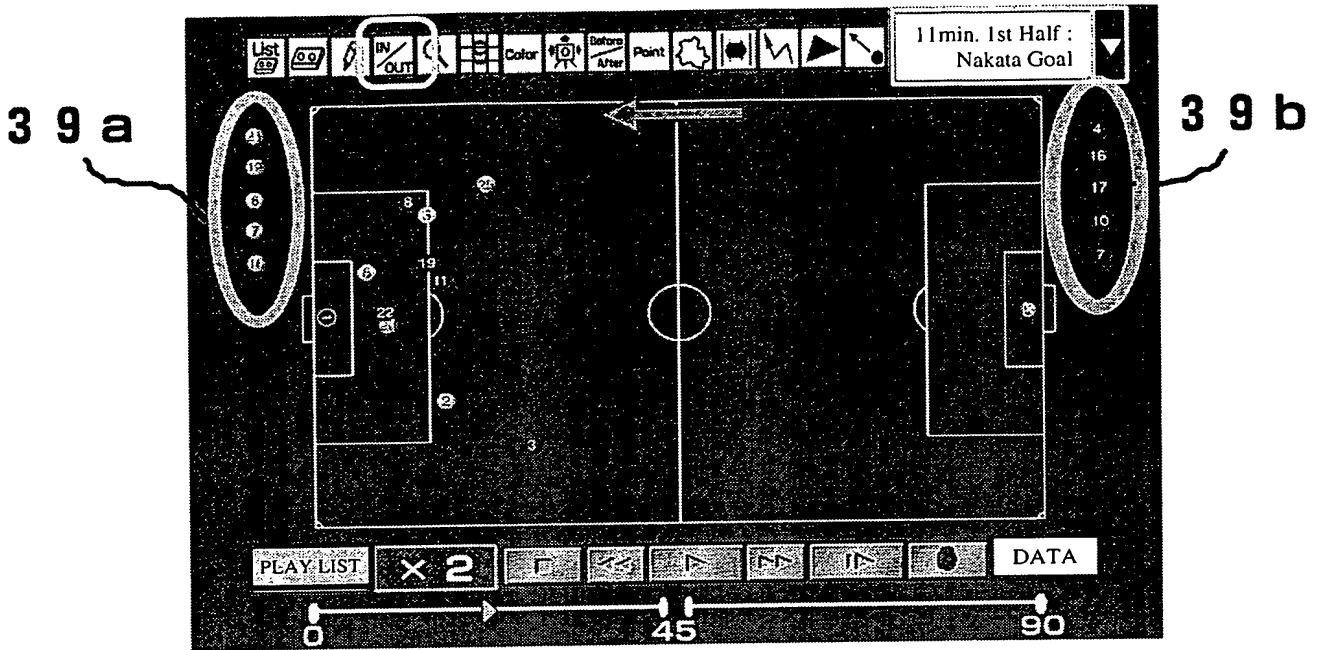
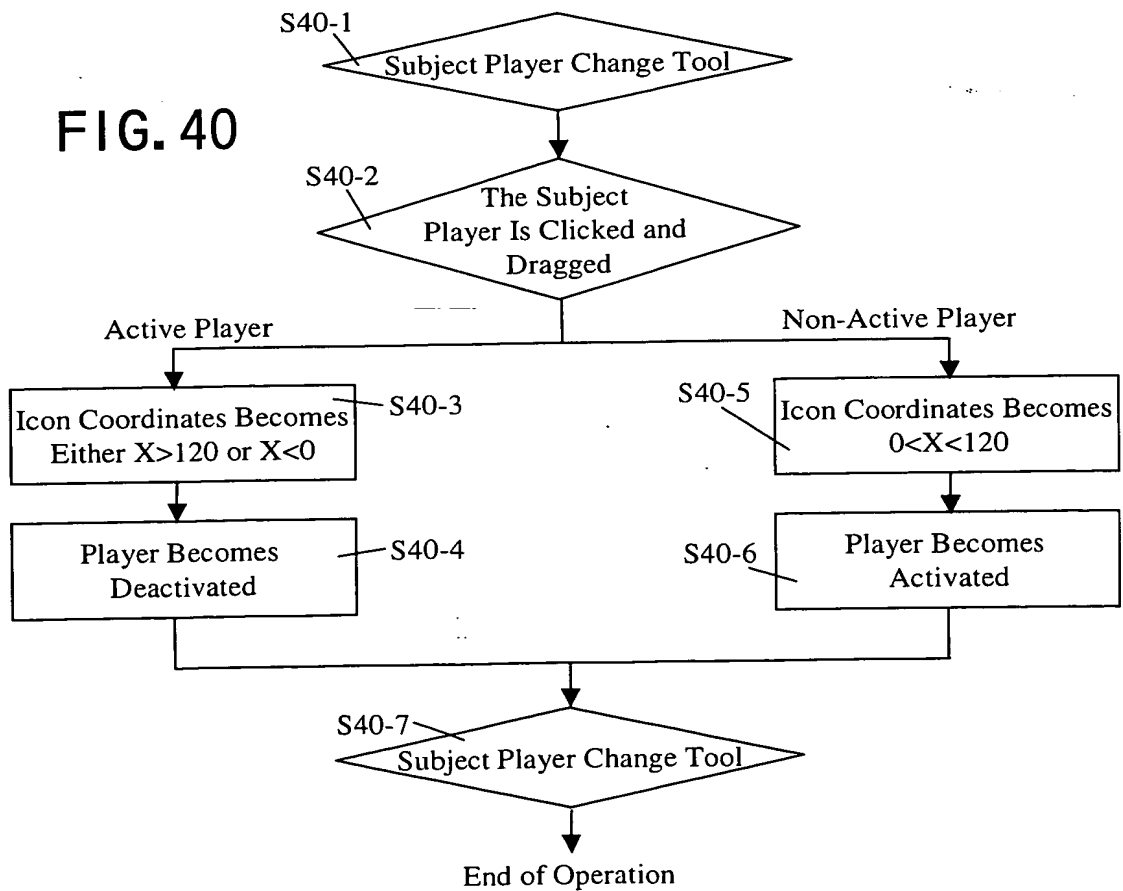
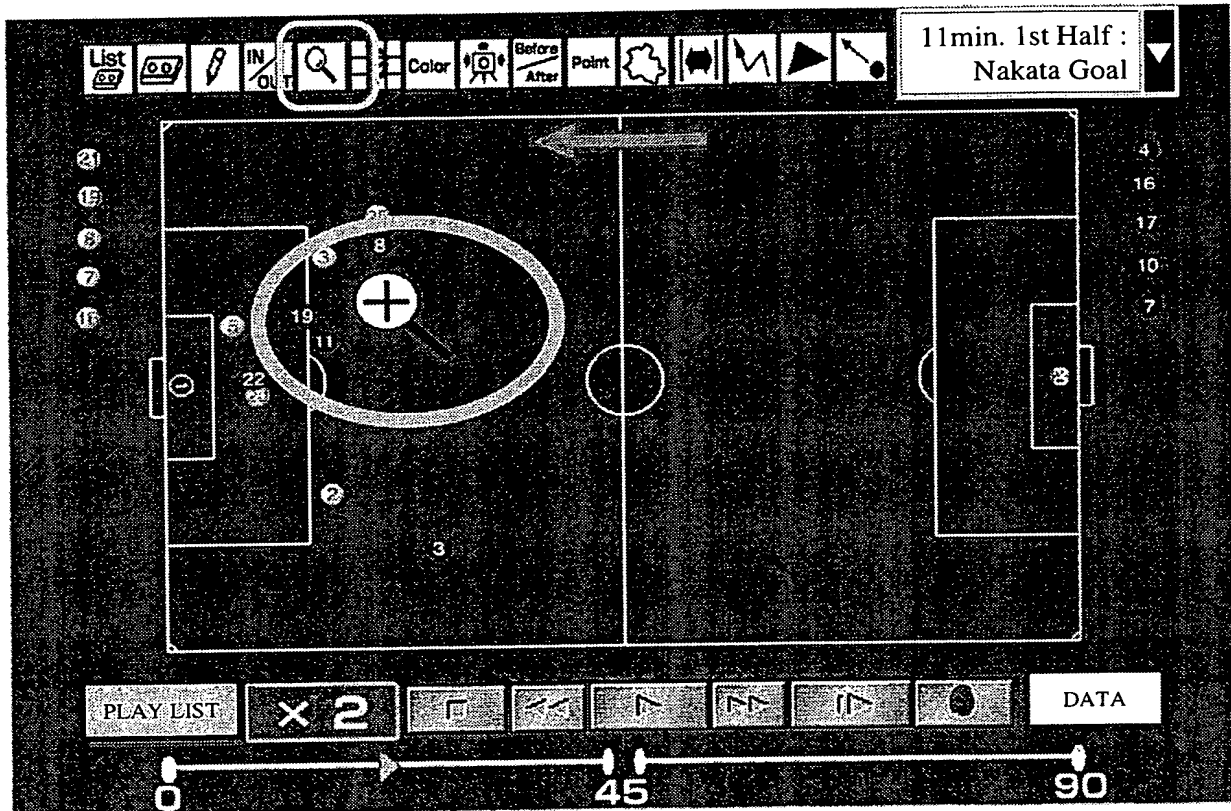


FIG. 40



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FIG. 41



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FIG. 42

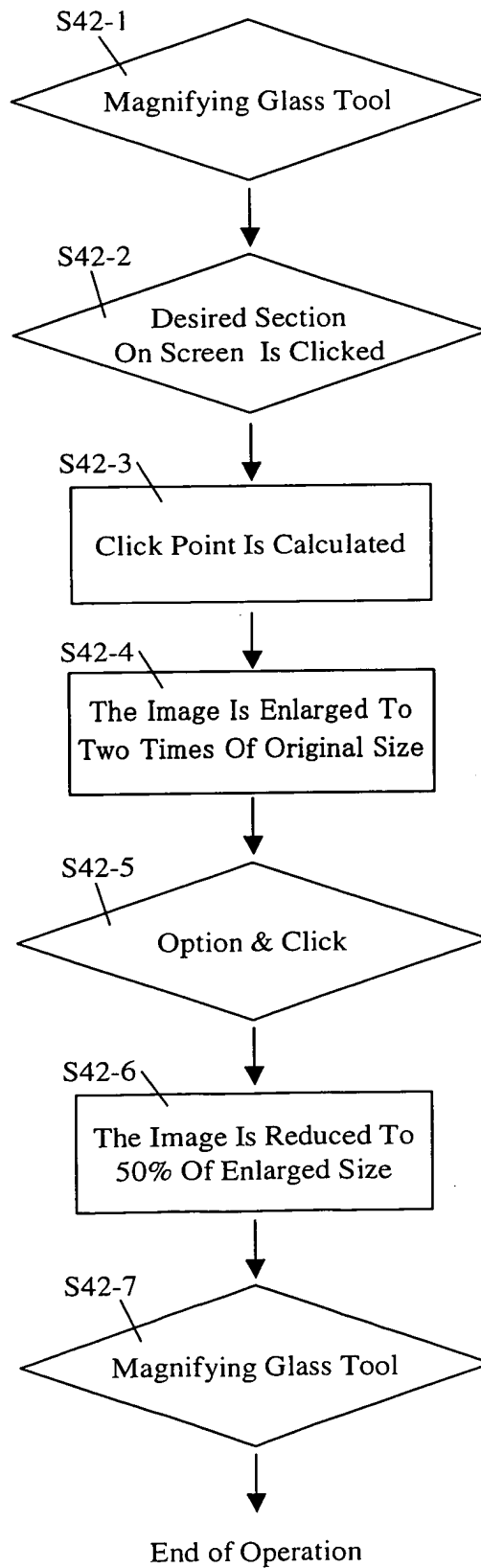


FIG. 43

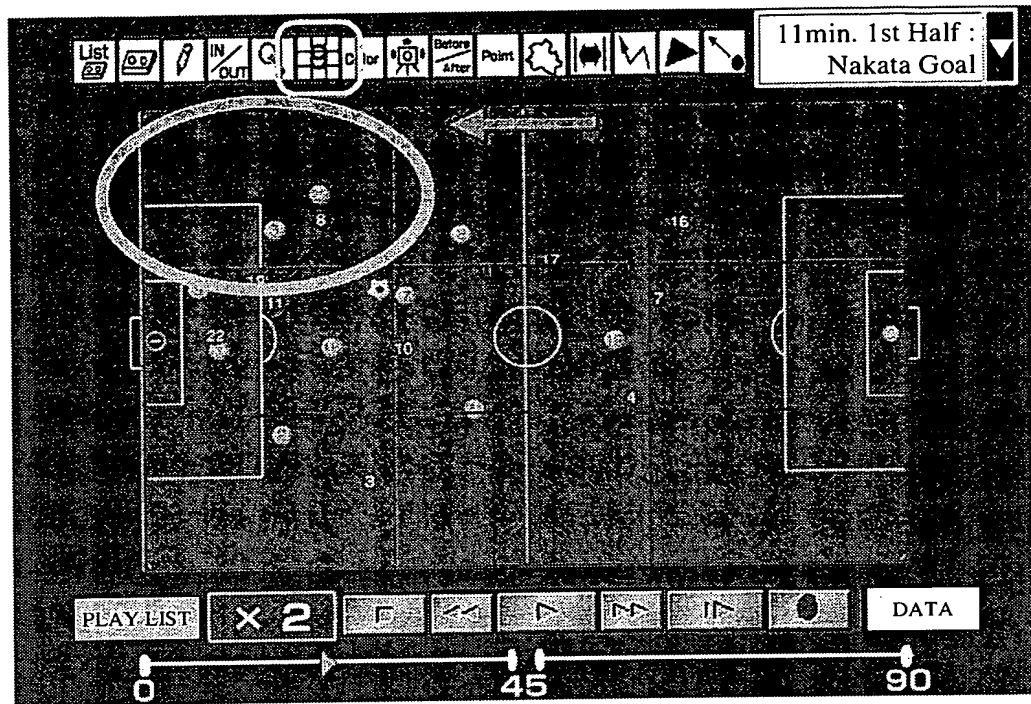
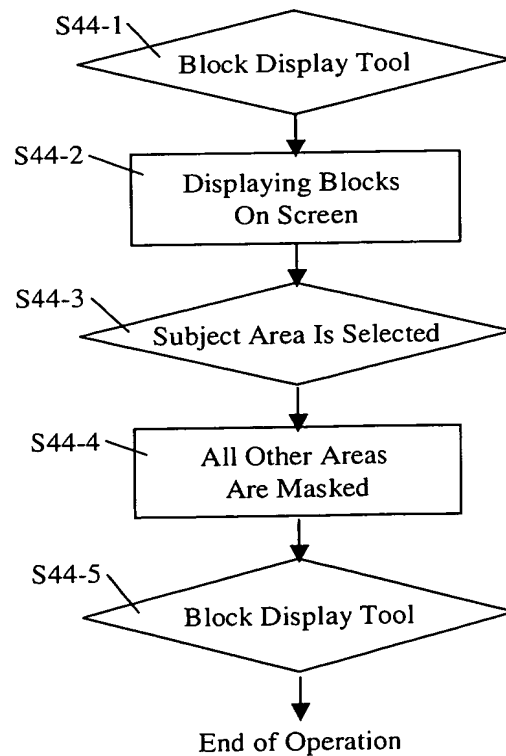


FIG. 44



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FIG. 45

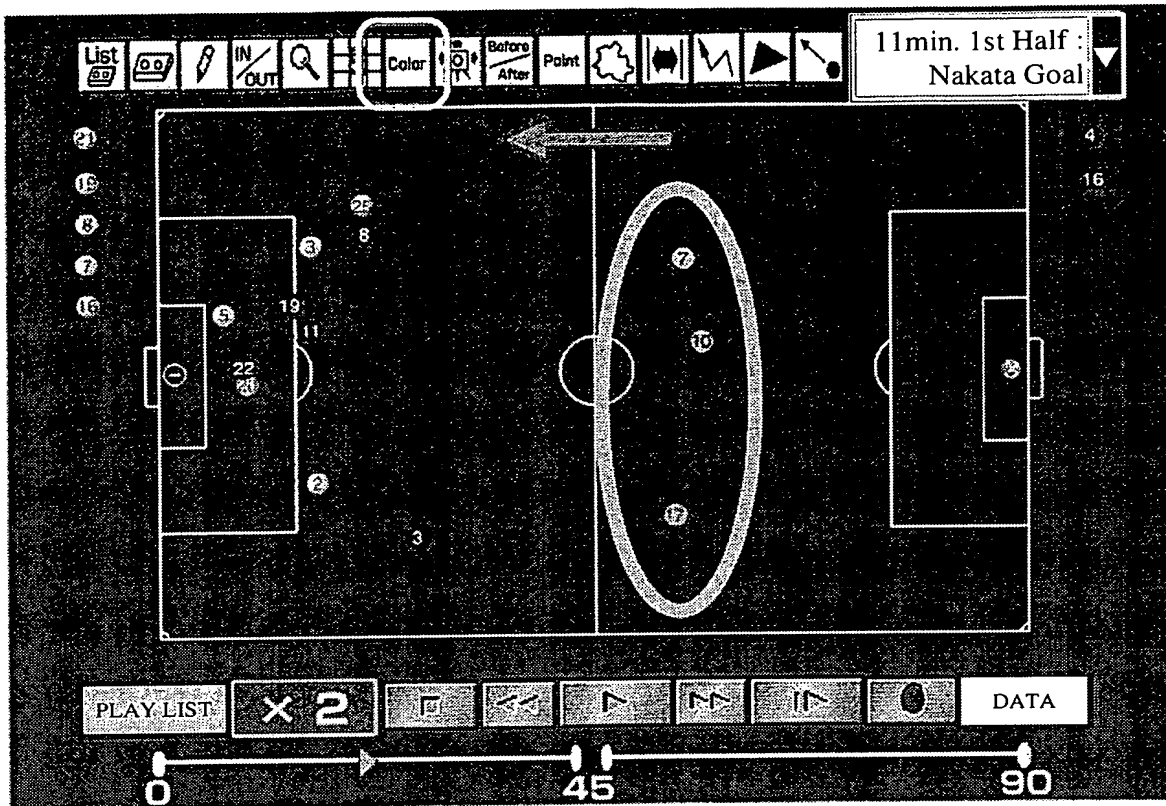
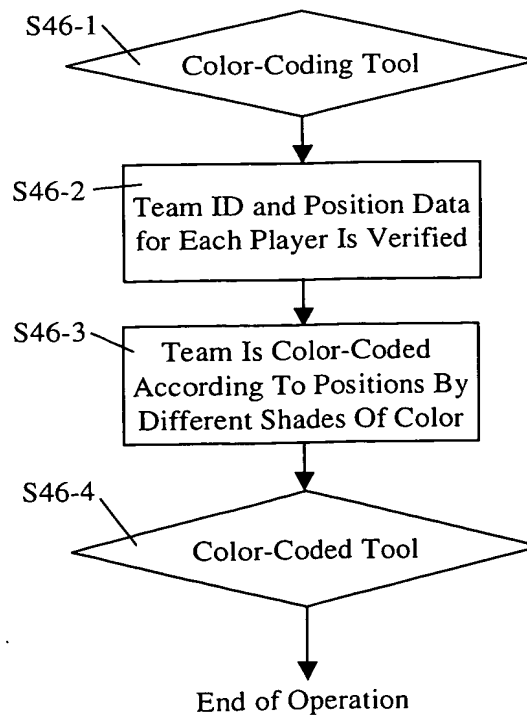


FIG. 46



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FIG. 47

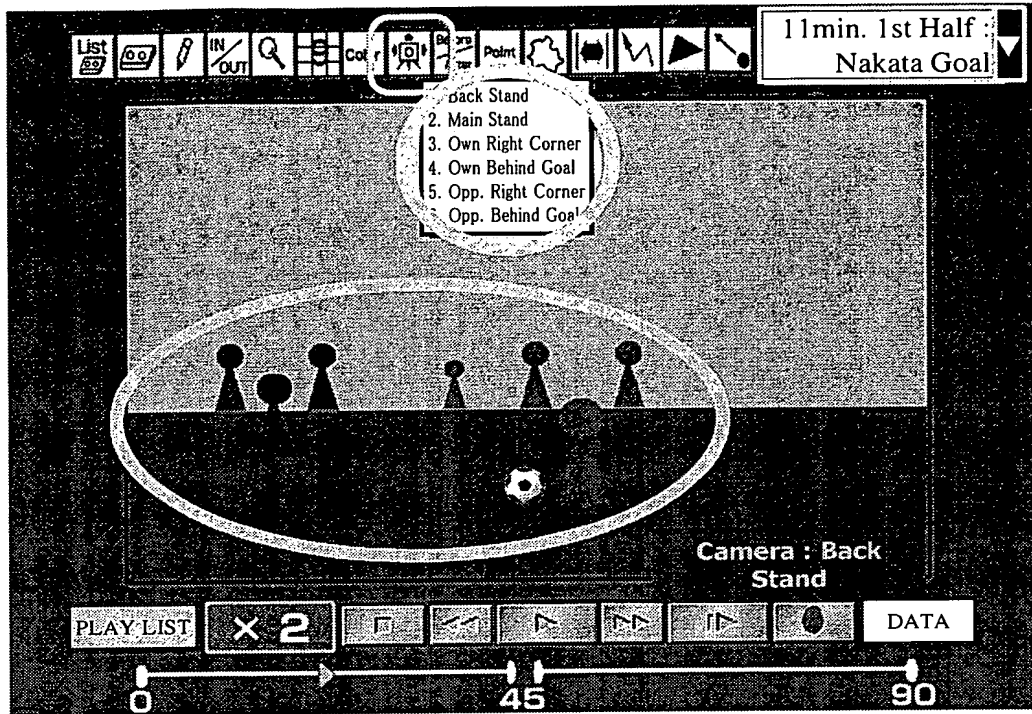
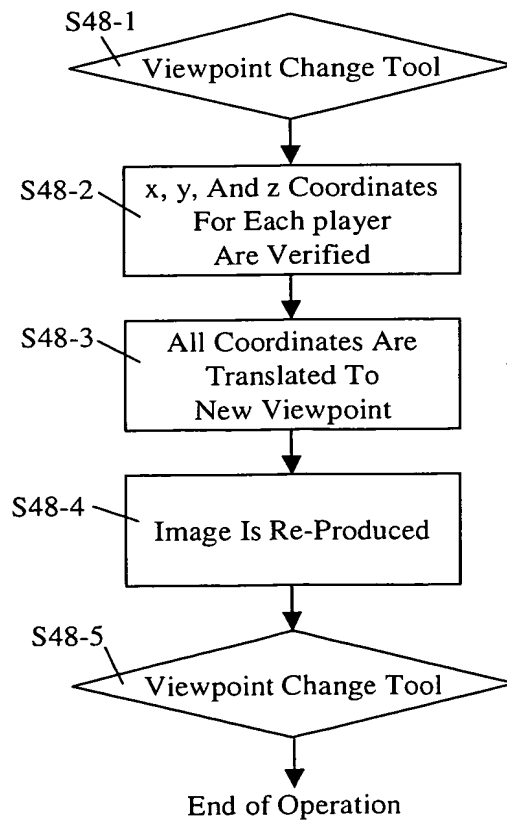


FIG. 48



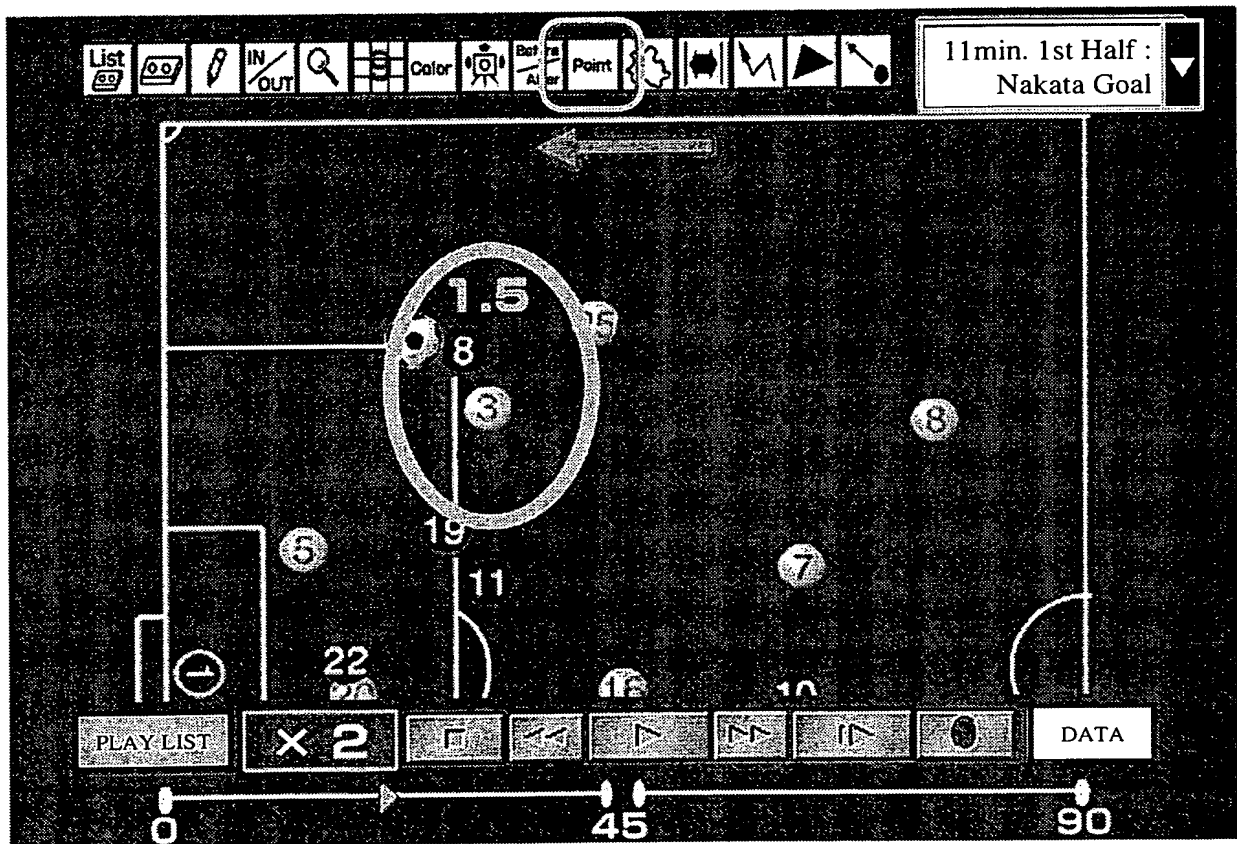
[illegible]

FIG. 52

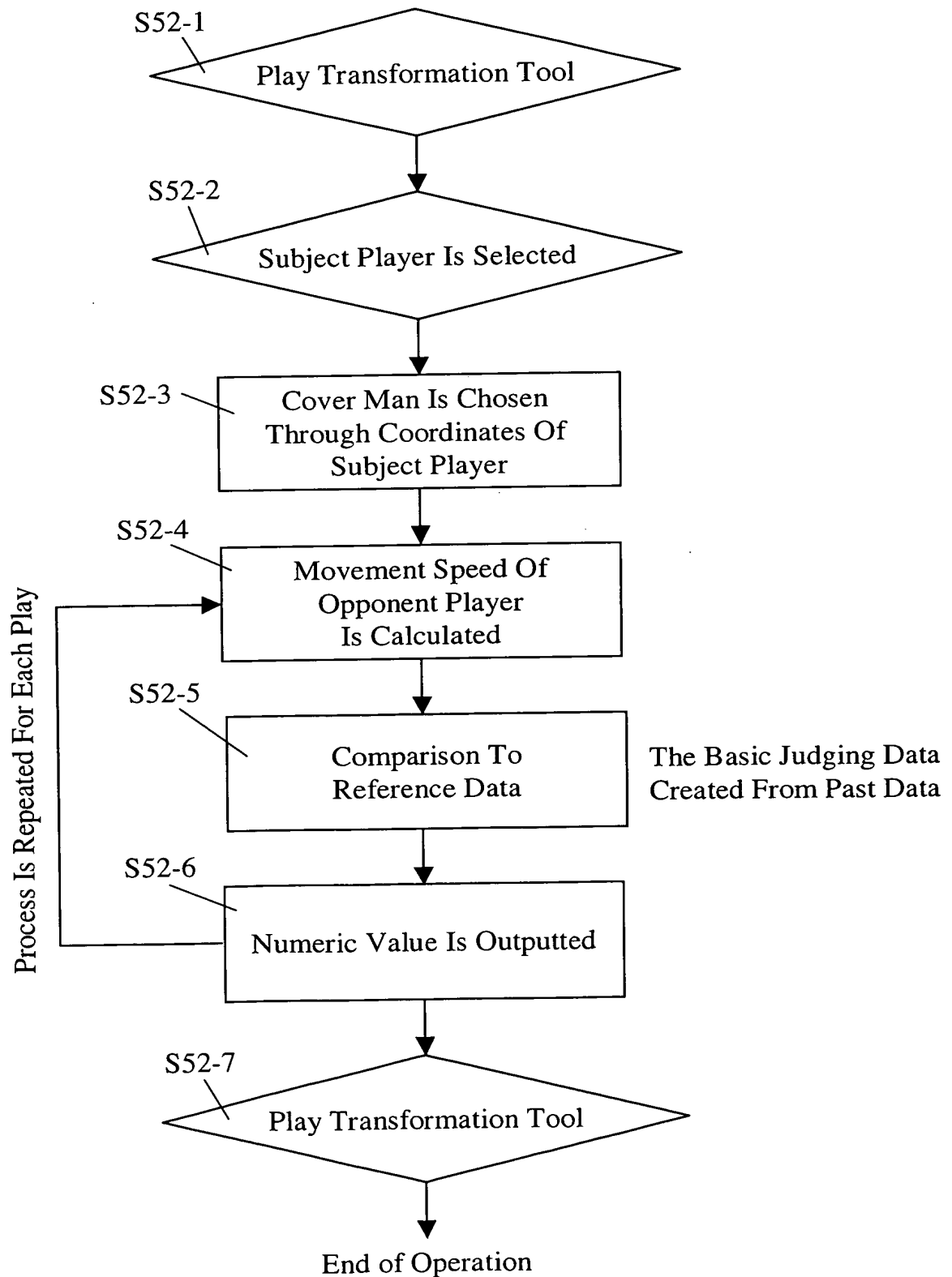


FIG. 53

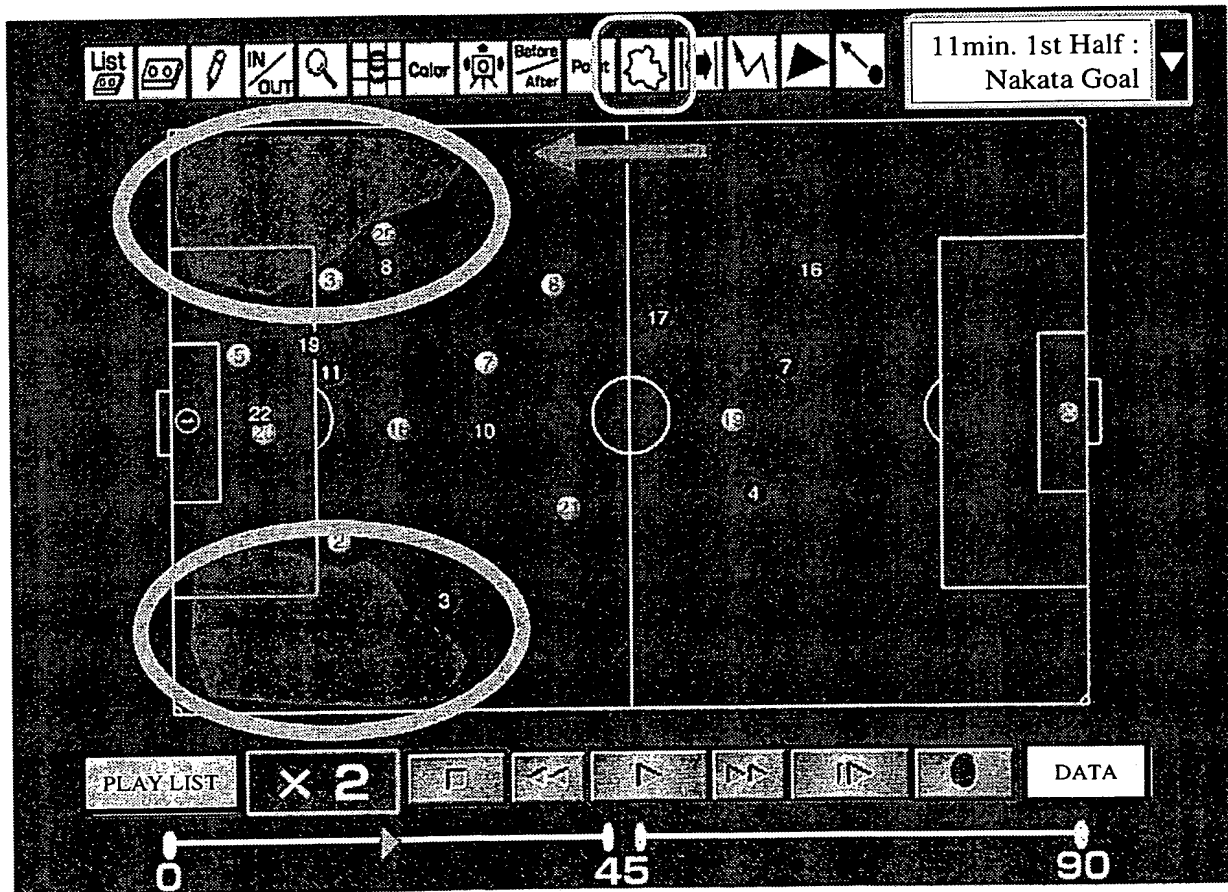


FIG. 54

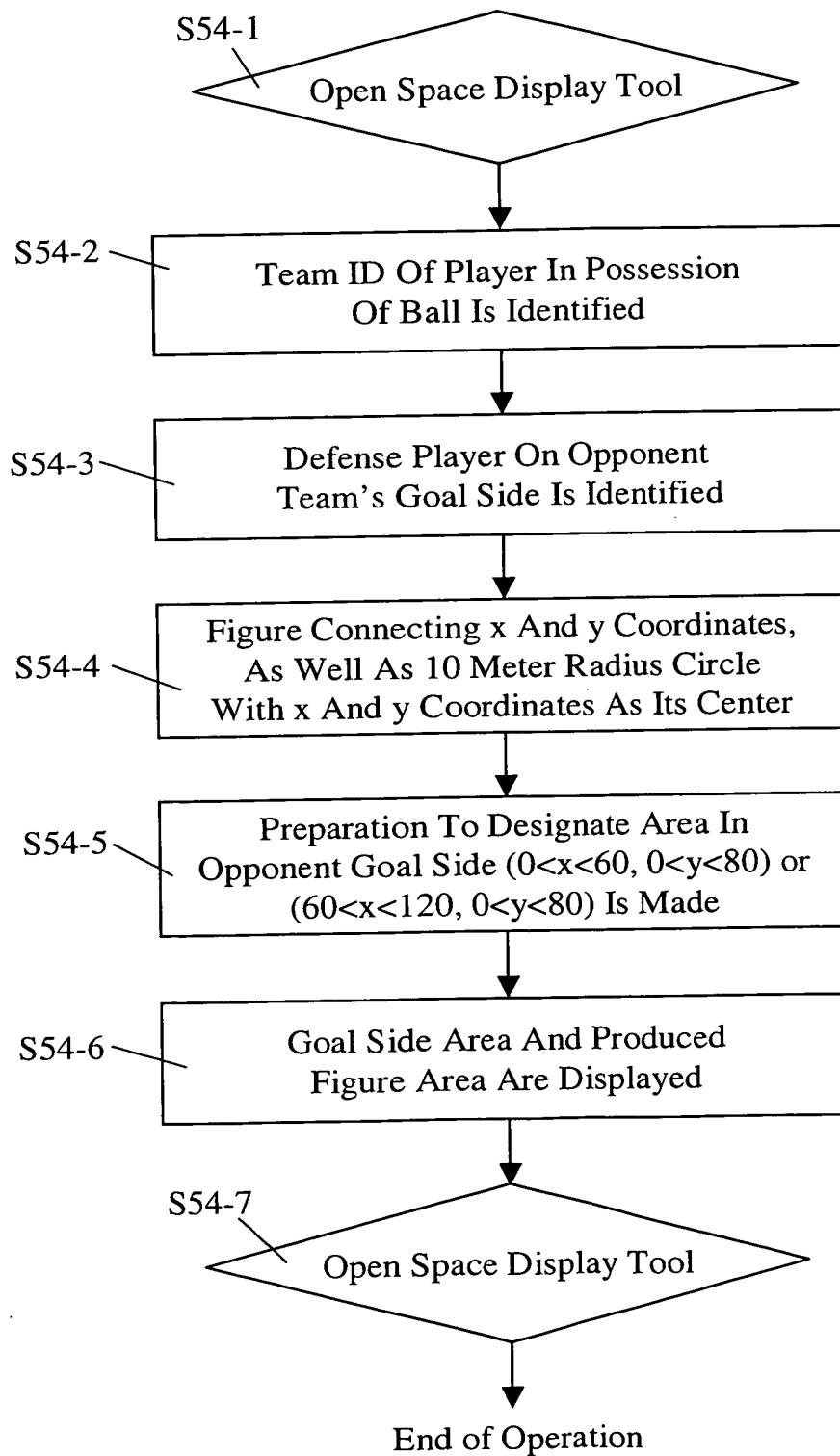


FIG. 55

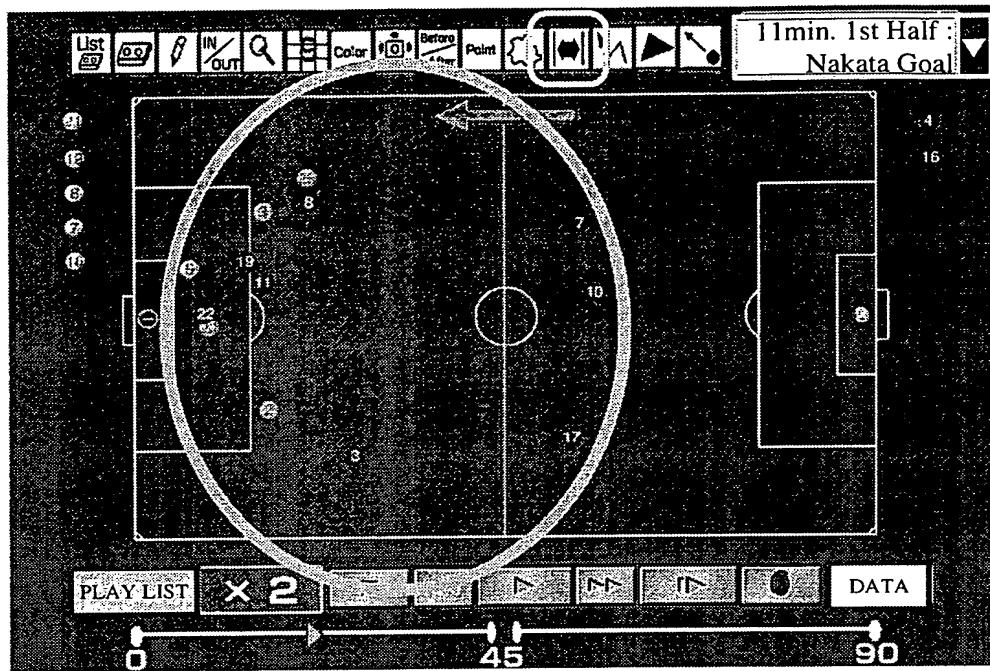


FIG. 56

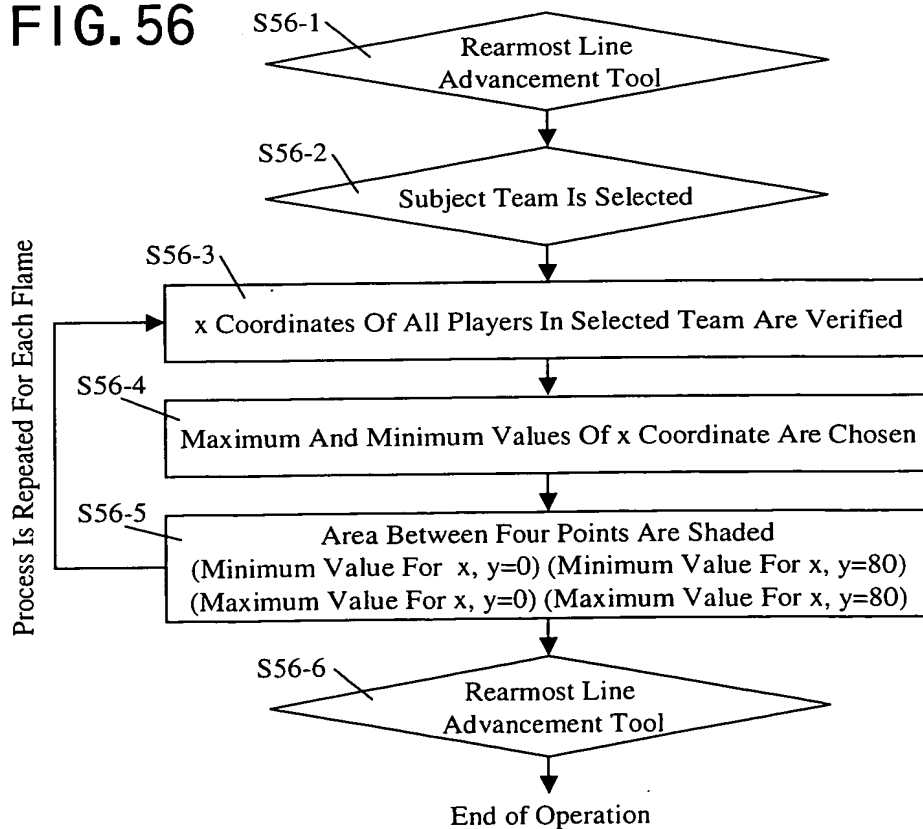




FIG. 57

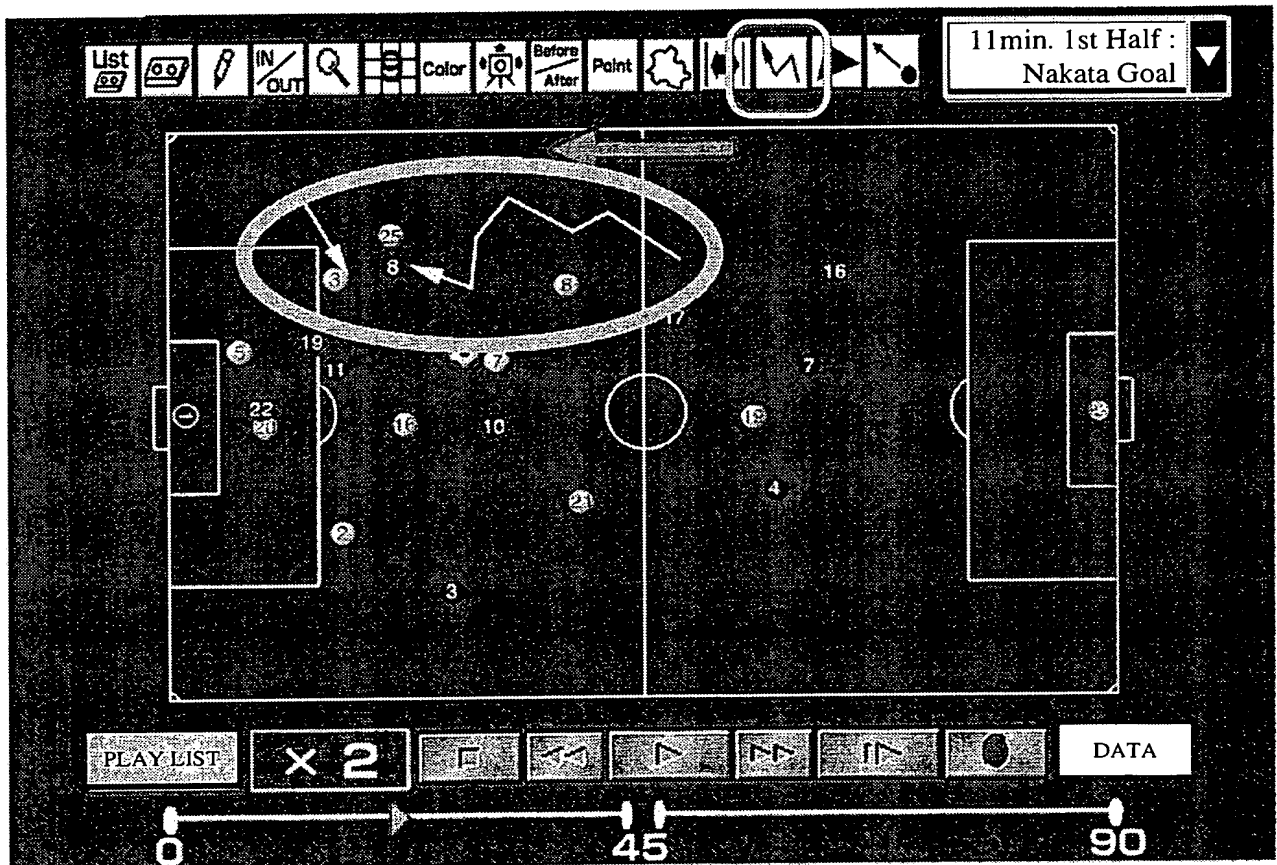


FIG. 59

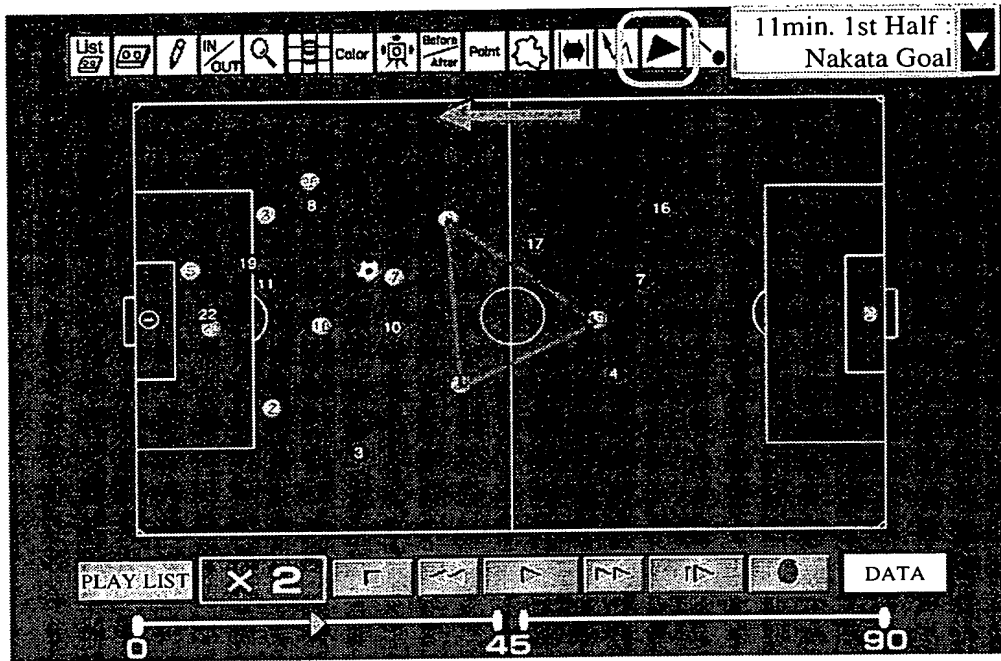


FIG. 60

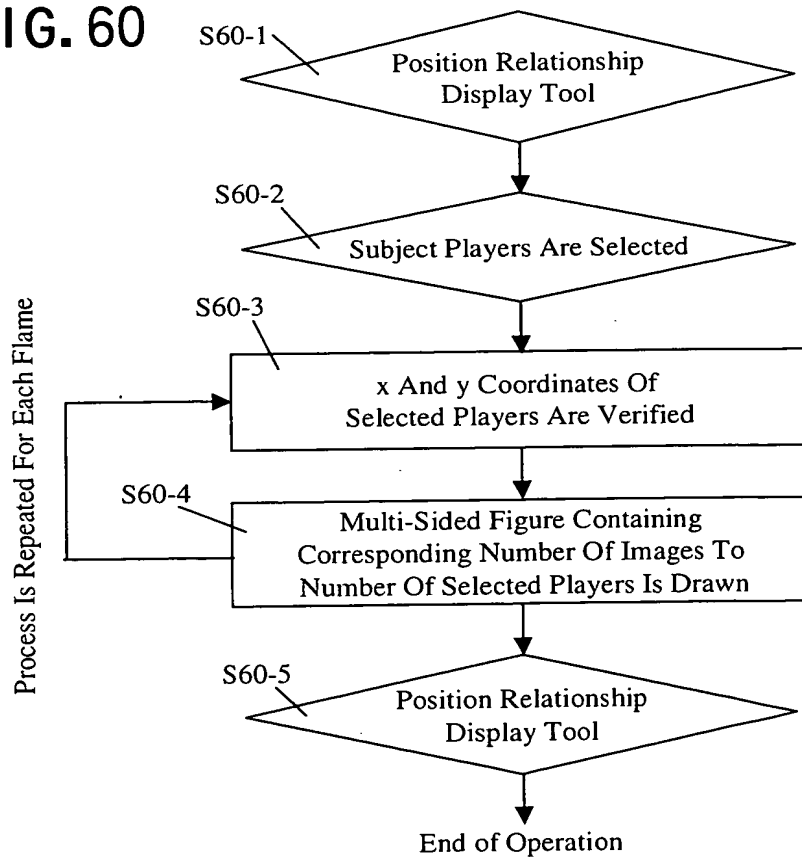


FIG. 61

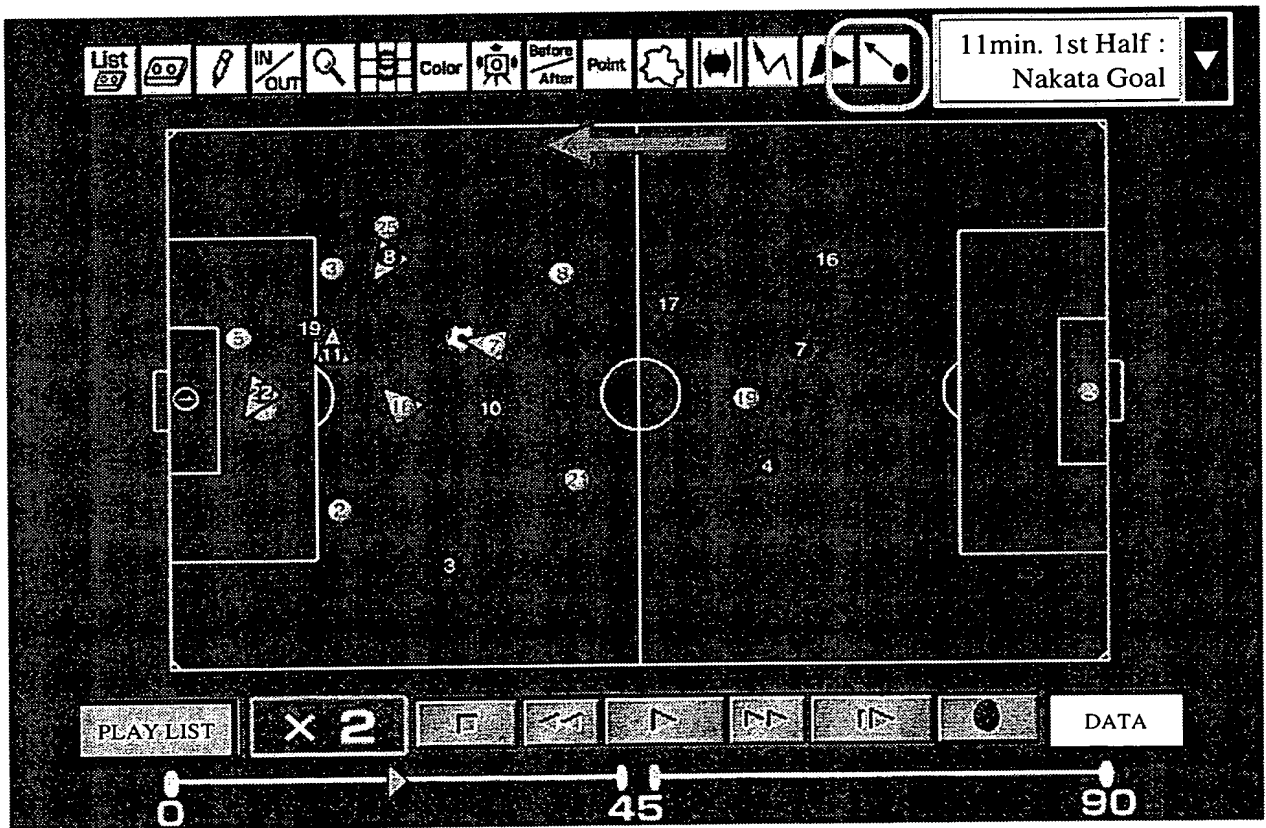


FIG. 63

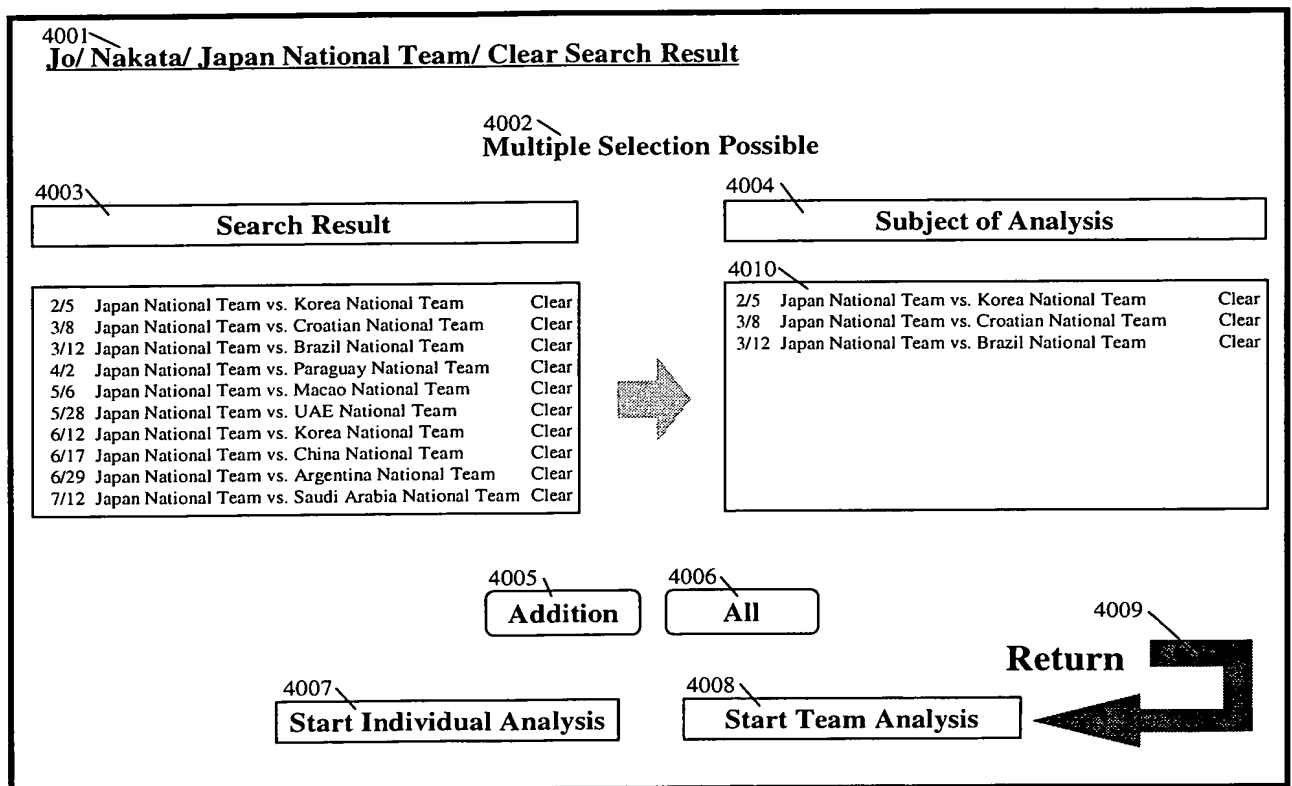


FIG. 64

5000

Individual Data Analysis Subject Player Selection Menu

Search Result

5001

| | | |
|------|--|-------|
| 2/5 | Japan National Team vs. Korea National Team | Clear |
| 3/8 | Japan National Team vs. Croatian National Team | Clear |
| 3/12 | Japan National Team vs. Brazil National Team | Clear |

Please Select Subject Player, Then Press Enter

5002

| | |
|---------------|---------------|
| 20. Kawaguchi | 20. Suker |
| 17. Akita | 10. Boban |
| 4. Ihara | 11. Bilic |
| 16. Saito | 8. Boksic |
| 19. Nakamura | 10. Simic |
| 7. Honda | 5. Prosinecki |
| 8. Nakata | 15. Maric |

5005

**Return To
Analysis Subject Search Sub-Menu**

5003

Enter

5004

Return

Single Selection Only

FIG. 65

6000

Team Data Analysis Subject Selection Menu**Search Result**

| | | |
|------|--|-------|
| 2/5 | Japan National Team vs. Korea National Team | Clear |
| 3/8 | Japan National Team vs. Croatian National Team | Clear |
| 3/12 | Japan National Team vs. Brazil National Team | Clear |

Please Select Subject Team, Then Press Enter

- **Japan National Team**
- **Korea National Team**
- **Croatia National Team**
- **Brazil National Team**

**Single Selection Only****Return To
Analysis Subject Search Sub-Menu****Enter****Return**

FIG. 66

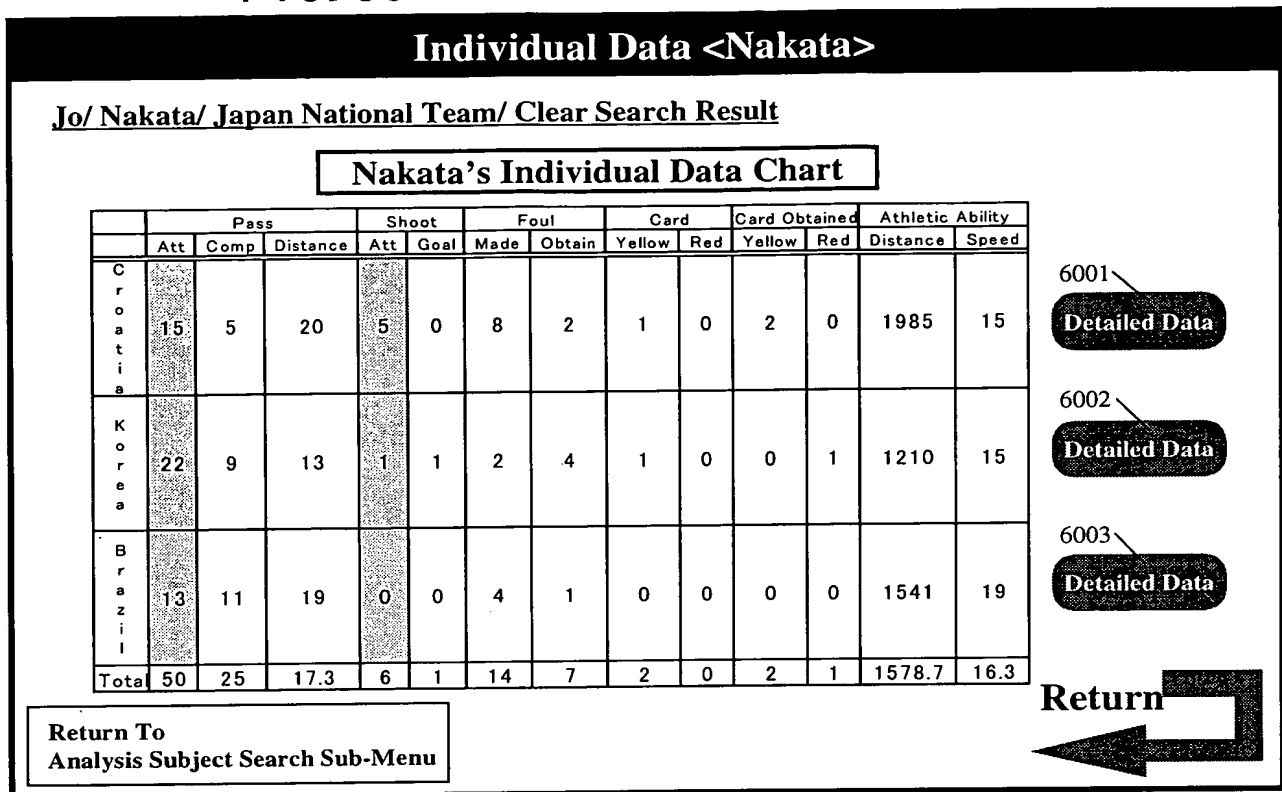


FIG. 67

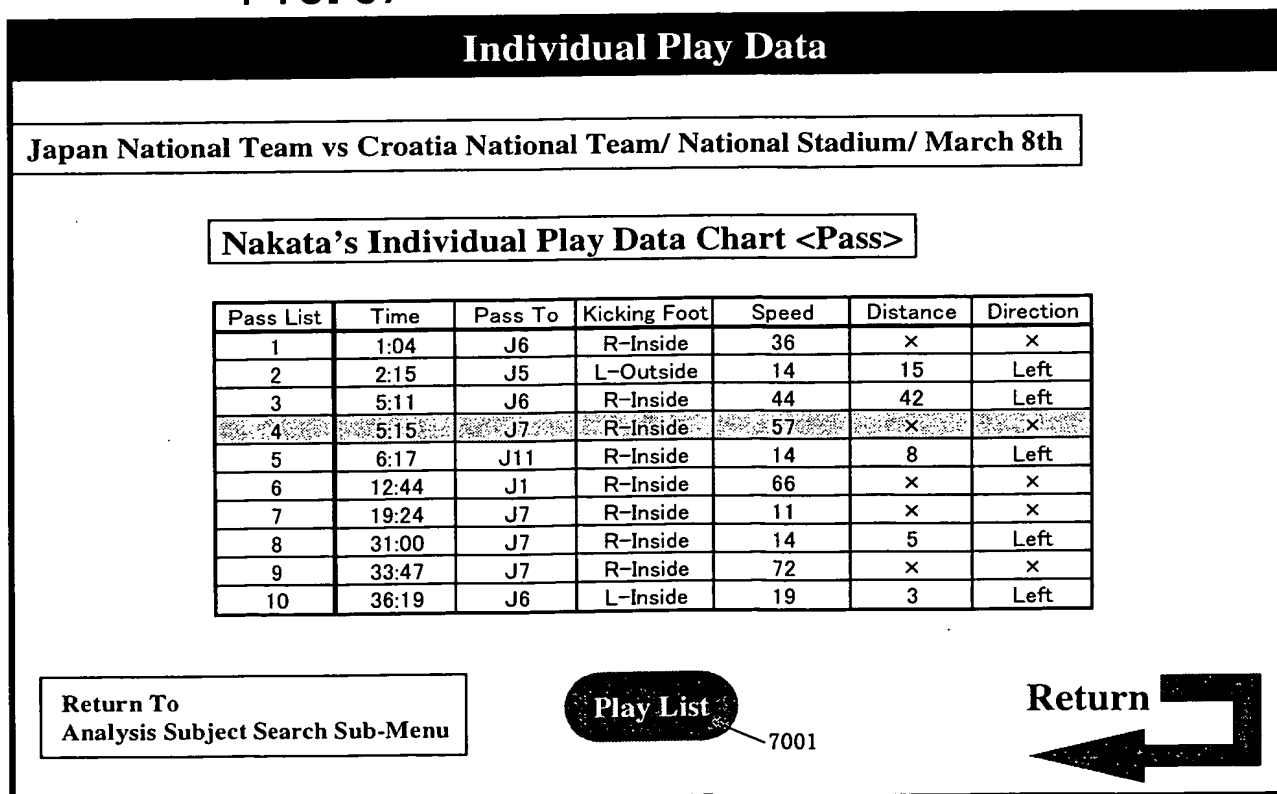


FIG. 68

Data <J Team>

Japan National Team Data Chart

| | | Pass | | | Shoot | | | | Foul | | Card | | Card Obtained | | Athletic Ability | | Ball Tumble Dis | | Offside | | FK | | CK | | Top&Bot | | | |
|-----------|-------|------|------|------|-------|------|----|------|------|-------|--------|-----|---------------|-----|------------------|-------|-----------------|------|---------|------|-------|------|-------|-------|---------|-------|---|----|
| | | Att. | Comp | Dist | Att. | Comp | OB | Goal | Made | Obtai | Yellow | Red | Yellow | Red | Stand | Speed | Total | Rate | Offside | Side | Total | ct S | Total | Right | Left | Shoot | | |
| V S C R O | J P N | 319 | 161 | 20.6 | 5 | 1 | 4 | 0 | 19 | 12 | 3 | 0 | 2 | 0 | 15.9 | 15.1 | 588 | 37.8 | 0.3 | 8 | 3 | 17 | 7 | 5 | 2 | 3 | 4 | 35 |
| | C R O | 488 | 380 | 24.3 | 16 | 11 | 5 | 2 | 12 | 19 | 2 | 0 | 3 | 0 | 18.8 | 17.7 | 966 | 62.2 | 1.1 | 5 | 8 | 27 | 14 | 8 | 6 | 2 | 2 | 22 |
| V S A R G | J P N | 254 | 151 | 19.8 | 8 | 1 | 6 | 0 | 26 | 11 | 5 | 1 | 3 | 0 | 18.1 | 14.2 | 502 | 33.2 | 0.2 | 7 | 4 | 22 | 3 | 2 | 1 | 1 | 0 | 38 |
| | A R G | 511 | 306 | 12.1 | 23 | 11 | 12 | 1 | 11 | 26 | 3 | 0 | 5 | 1 | 20.1 | 19.1 | 1011 | 66.8 | 1.9 | 11 | 8 | 33 | 19 | 14 | 12 | 2 | 5 | 26 |
| V S J A M | J P N | 499 | 298 | 14.2 | 22 | 5 | 17 | 3 | 9 | 7 | 0 | 0 | 0 | 0 | 18.1 | 16.2 | 751 | 84.5 | 0.8 | 2 | 9 | 16 | 5 | 12 | 3 | 9 | 7 | 28 |
| | J A M | 212 | 107 | 26.3 | 7 | 2 | 5 | 2 | 7 | 9 | 0 | 0 | 0 | 0 | 14.3 | 11.6 | 413 | 35.5 | 0.1 | 9 | 0 | 11 | 1 | 3 | 1 | 2 | 0 | 41 |

8001

Detailed Data

8002

Detailed Data

8003

Detailed Data

| | | Pass | | | Shoot | | | | Foul | | Card | | Card Obtained | | Athletic Ability | | Ball Tumble Dis | | Offside | | FK | | CK | | Top&Bot | | | |
|-------|--|------|------|------|-------|------|----|------|------|-------|--------|-----|---------------|-----|------------------|-------|-----------------|------|---------|------|-------|------|-------|-------|---------|-------|----|----|
| | | Att. | Comp | Dist | Att. | Comp | OB | Goal | Made | Obtai | Yellow | Red | Yellow | Red | Stand | Speed | Total | Rate | Offside | Side | Total | ct S | Total | Right | Left | Shoot | | |
| J P N | | 1072 | 610 | 20.6 | 35 | 7 | 27 | 3 | 54 | 30 | 8 | 1 | 5 | 0 | 50.1 | 15.2 | 1841 | - | 1.3 | 17 | 16 | 55 | 15 | 19 | 6 | 13 | 11 | 33 |

Return To
Analysis Subject Search Sub-Menu

Return

8001\

Detailed Data

8002\

Detailed Data

8003\

Detailed Data

Return To
Analysis Subject Search Sub-Menu

Return

FIG. 69

| Team Play Data <Pass> | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-----------|----------|--------------|-------|----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Japan National Team vs Croatia National Team/ National Stadium/ March 8th | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Japan National Team Play Data Chart <Pass> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pass List | Time | Pass To | Pass By | Kicking Foot | Speed | Distance | Direction | | | | | | | | | | | | | | | | | | | |
| 1 | 1:04 | Yamaguchi | x | R-Inside | 36 | x | x | | | | | | | | | | | | | | | | | | | |
| 2 | 2:15 | Nanami | Nakayama | L-Outside | 14 | 15 | Left | | | | | | | | | | | | | | | | | | | |
| 3 | 5:11 | Yamaguchi | Nakata | R-Inside | 44 | 42 | Left | | | | | | | | | | | | | | | | | | | |
| 4 | 5:15 | Nakata | x | R-Inside | 57 | x | x | | | | | | | | | | | | | | | | | | | |
| 5 | 6:17 | Nakayama | Soma | R-Inside | 14 | 8 | Left | | | | | | | | | | | | | | | | | | | |
| 6 | 12:44 | Kawaguchi | x | R-Inside | 66 | x | x | | | | | | | | | | | | | | | | | | | |
| 7 | 19:24 | Nakata | x | R-Inside | 11 | x | x | | | | | | | | | | | | | | | | | | | |
| 8 | 31:00 | Jo | Nakayama | R-Inside | 14 | 5 | Left | | | | | | | | | | | | | | | | | | | |
| 9 | 33:47 | Nakata | x | R-Inside | 72 | x | x | | | | | | | | | | | | | | | | | | | |
| 10 | 36:19 | Yamaguchi | Nanami | L-Inside | 19 | 3 | Left | | | | | | | | | | | | | | | | | | | |

Return To
Analysis Subject Search Sub-Menu

Play List

7001


Return

FIG. 70

Individual Data

Nakata

| | Pass | | | Shoot | | Foul | | Card | | Card Obtains | | Athletic Ability | |
|-------------|------|------|-------|-------|------|------|--------|--------|-----|--------------|-----|------------------|-------|
| | Att | Comp | Stand | Att | Goal | Made | Obtain | Yellow | Red | Yellow | Red | Distance | Speed |
| C
R
O | 15 | 5 | 20 | 5 | 0 | 8 | 2 | 1 | 0 | 2 | 0 | 1985 | 15 |
| K
R
A | 22 | 9 | 13 | 1 | 1 | 2 | 4 | 1 | 0 | 0 | 1 | 1210 | 15 |
| B
R
A | 13 | 11 | 19 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1541 | 19 |
| Total | 50 | 25 | 17.3 | 6 | 1 | 14 | 7 | 2 | 0 | 2 | 1 | 1578.7 | 16.3 |

Return 

7001

7002


7003

Related Data Button

Return to "Individual Data Chart"

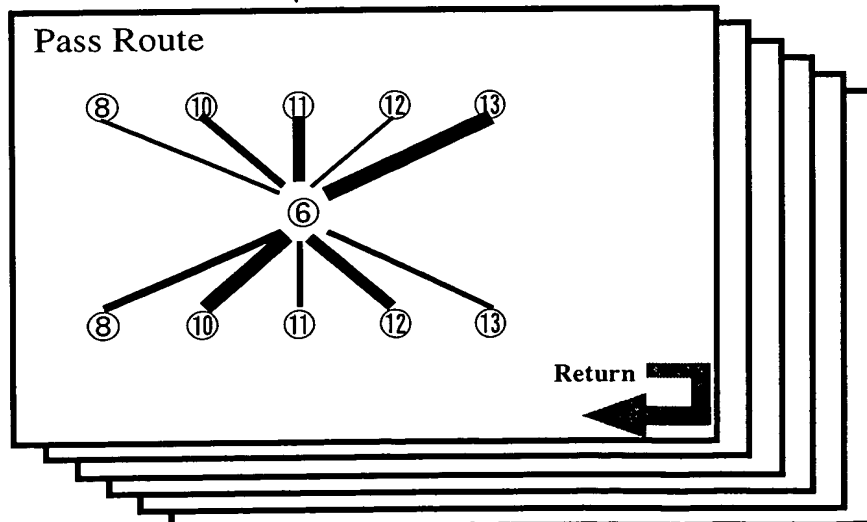
Individual Related Data
Menu Table

Enter

Return 

Select Subject From Menu

Return To "Related Data Table"



Individual Related Data

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FIG. 71

Shoot Track
Change Of Moving Speed
Change Of Movement Distance Per Unit Of Time
Comparison Of Activity Area Between Each Half
Ball Pass Route

Enter

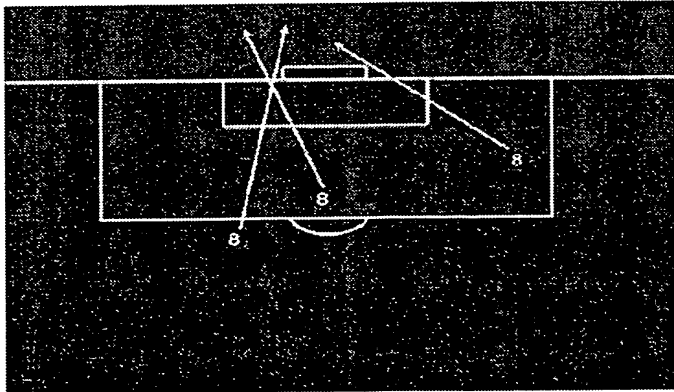
Return

FIG. 72

Shoot Track

Japan National Team vs Croatia National Team/ National Stadium/ March 8th

Nakata



Total Shoot Attempt 3

Return

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FIG. 73

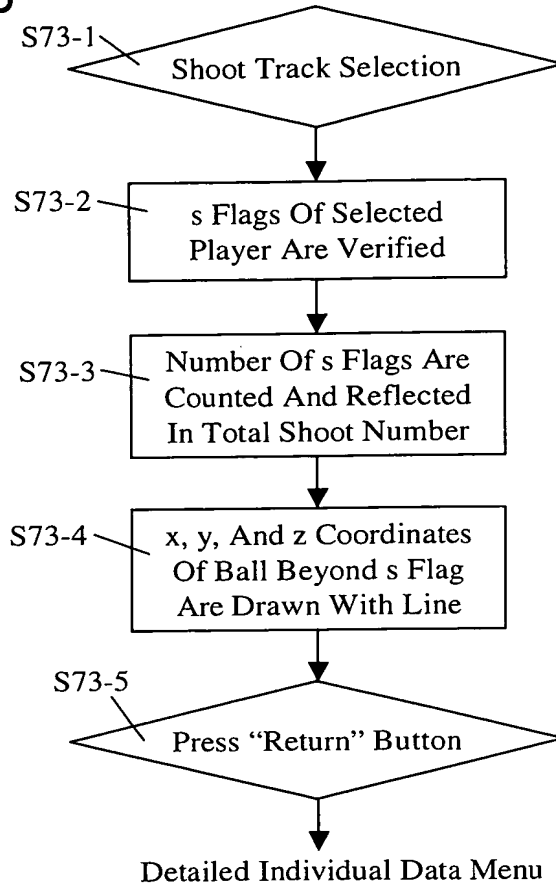


FIG. 74

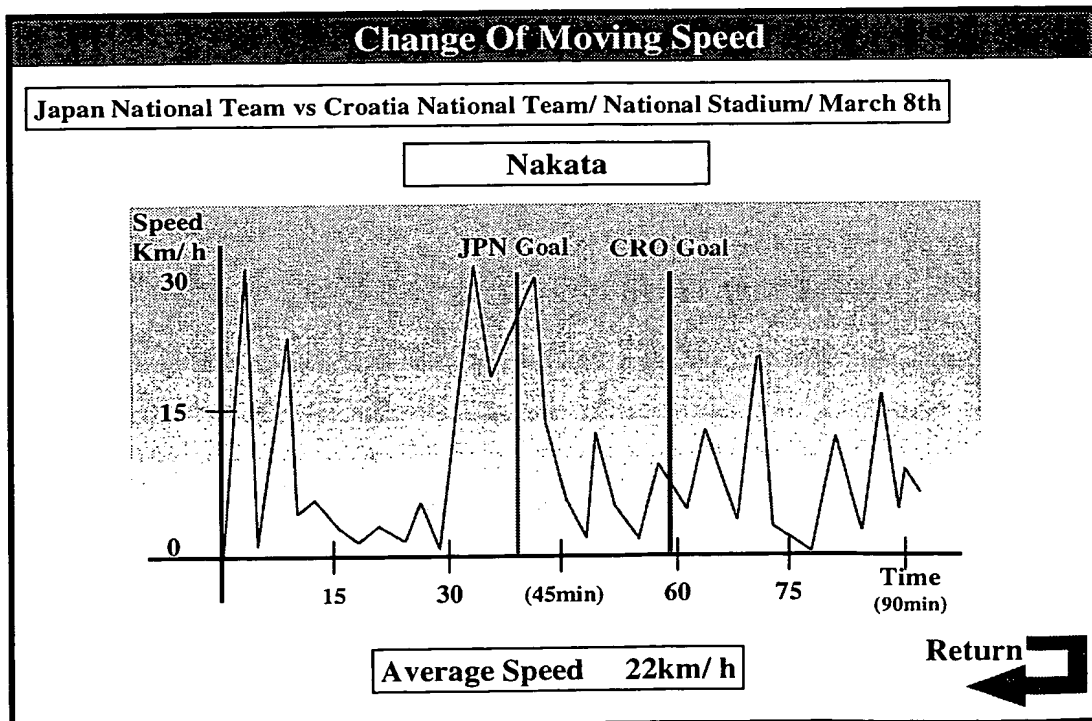


FIG. 81

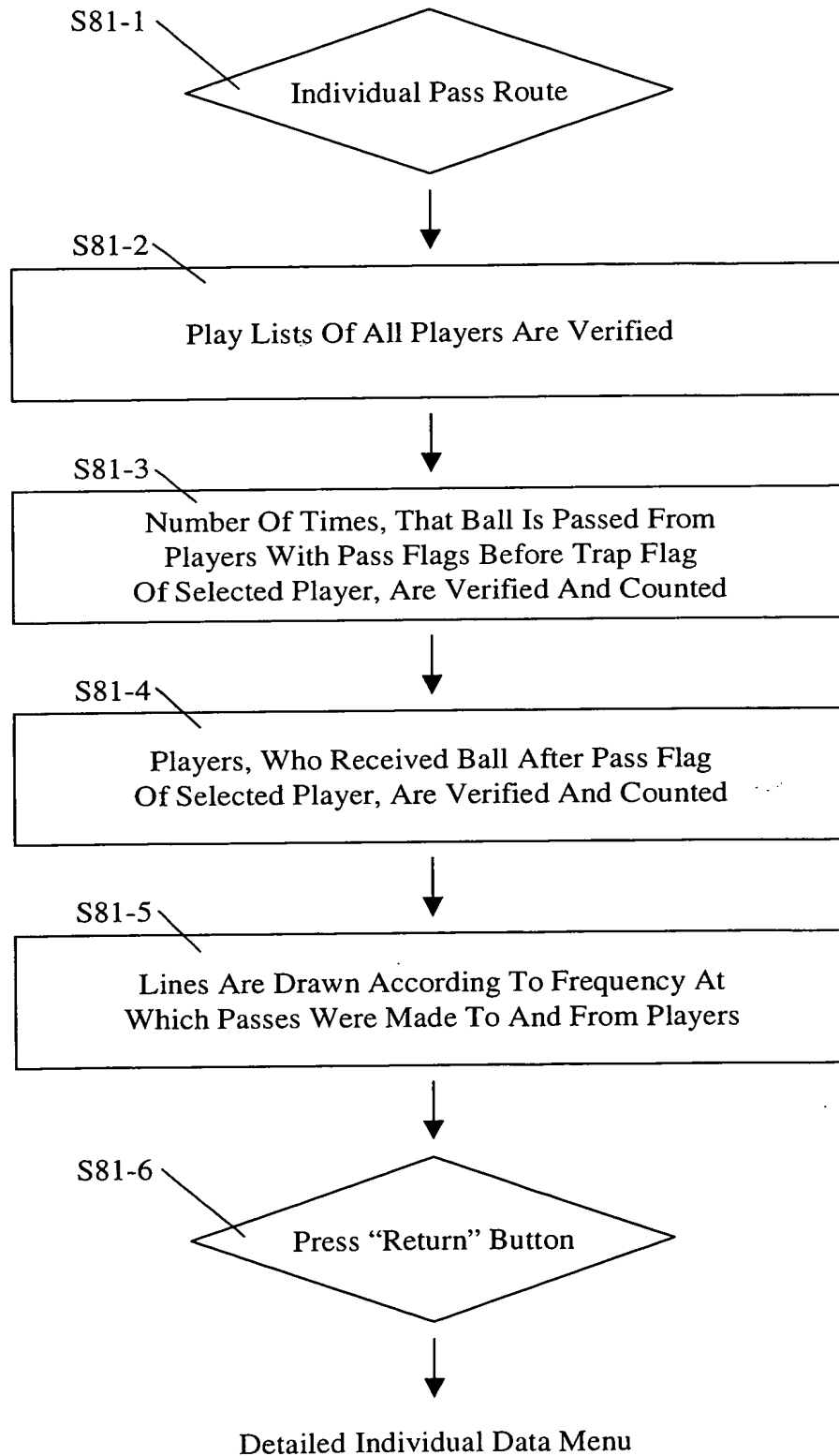


FIG. 82

Team Data

| Japan National Team | | | | | | | | | | | | | |
|---------------------|------|-----|------|-------|------|-----|------|------|-----|------|-----|---------|------------------|
| | Pass | | | Shoot | | | Foul | | | Card | | | Athletic Ability |
| | Att | Con | Dist | Att | Goal | Mad | Obt | Yell | Red | Yell | Red | Distand | Speed |
| C
R
O | 15 | 5 | 20 | 5 | 0 | 8 | 2 | 1 | 0 | 2 | 0 | 1985 | 15 |
| K
O
R | 22 | 9 | 13 | 1 | 1 | 2 | 4 | 1 | 0 | 0 | 1 | 1210 | 15 |
| B
R
A | 13 | 11 | 19 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1541 | 19 |

8001

8002

8003

Return

Related Data Button

Return to "Team Data Chart"

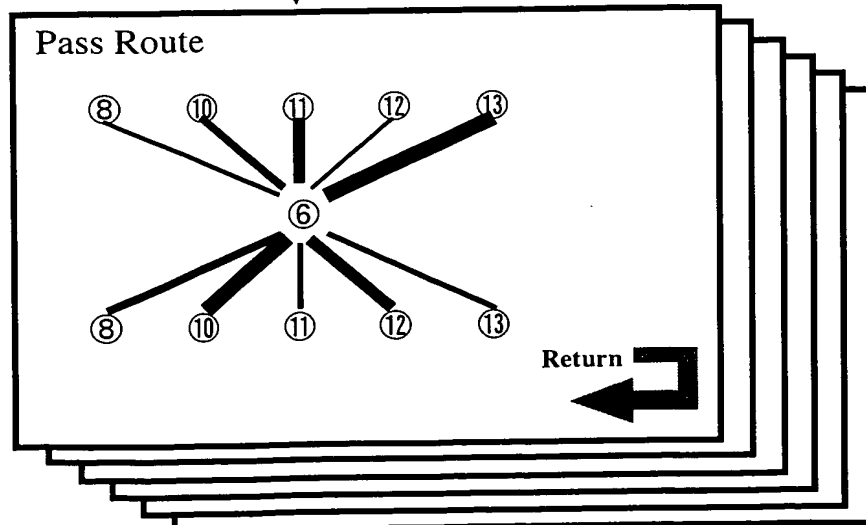
Team Related Data
Menu Table

Enter

Return

Select Subject From Menu

Return To "Related Data Table"



Team Related Data

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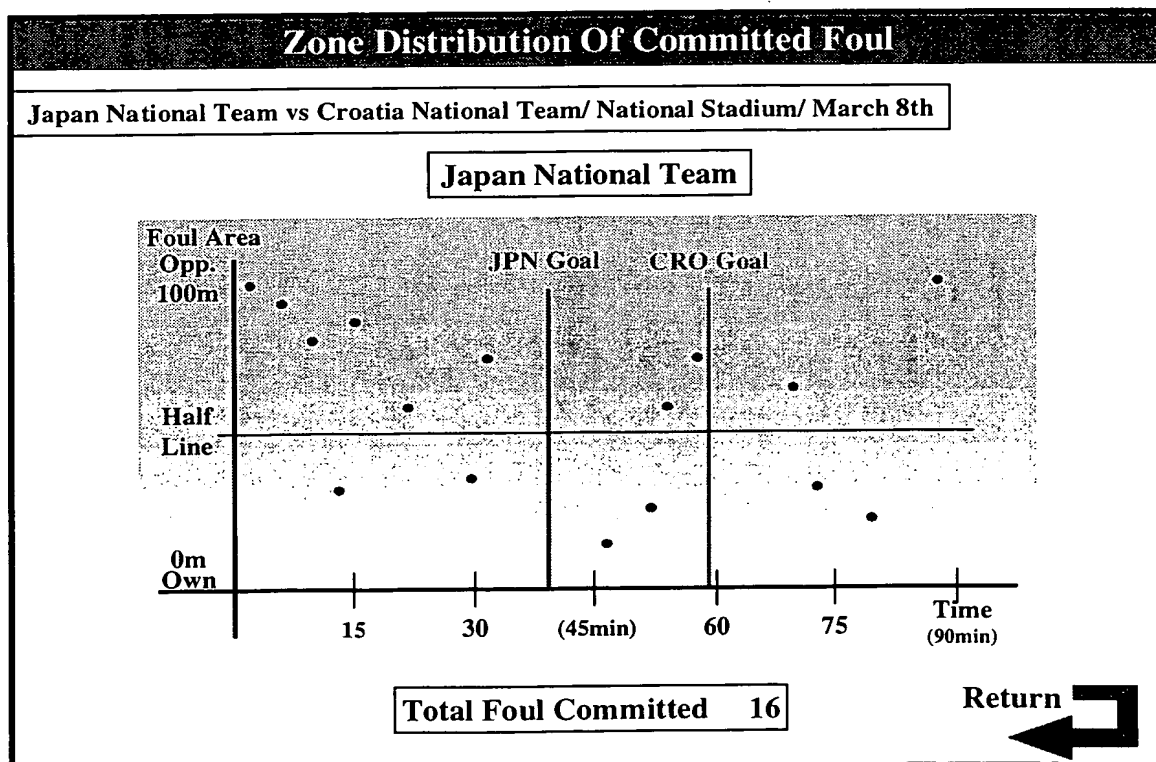
FIG. 83

Zone Distribution Of Committed Foul
Shoot Side Tendency
Shoot Track Line Diagram
Shoot Distance Tendency
Change Of Distance Between Top And Bottom Lines Of Defense
Defense/ Offense Tendency
Ball Control Rate Change
Ball Control Rate By Zone
Ball Rotation Track During Offense
Pass Route Lines

Enter

Return

FIG. 84



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FIG. 89

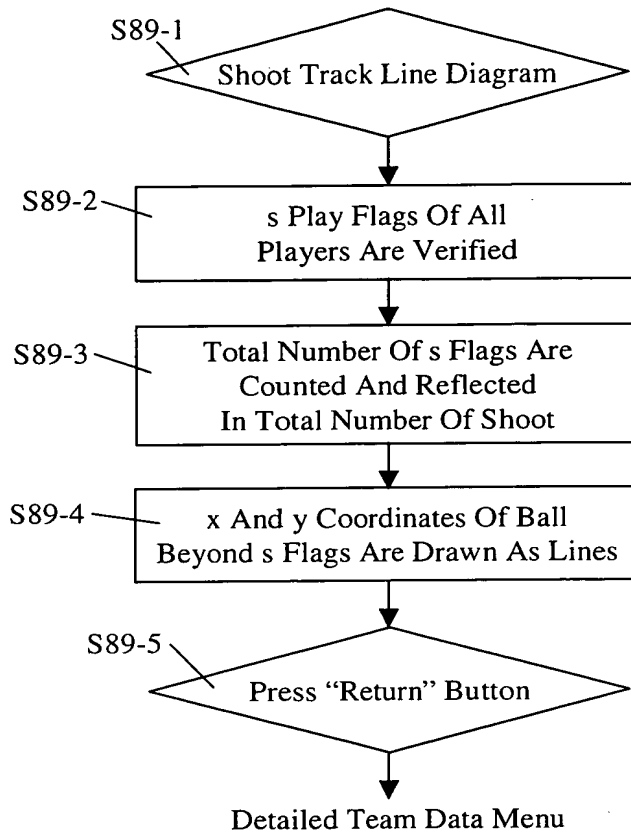
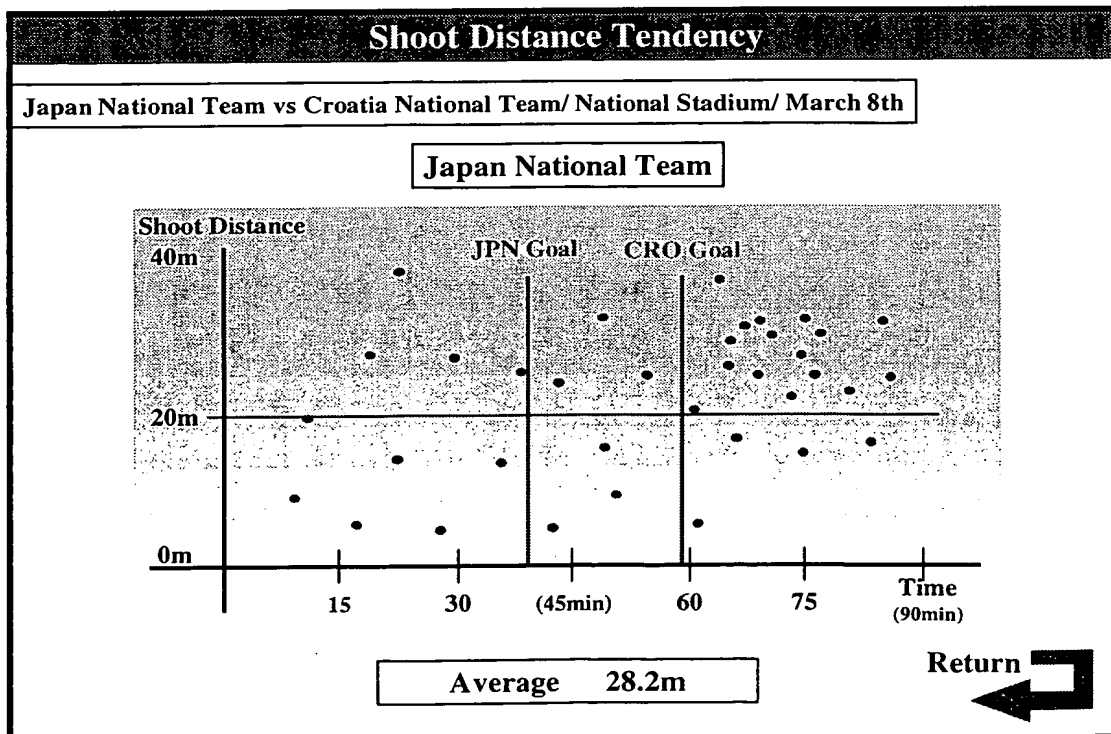


FIG. 90



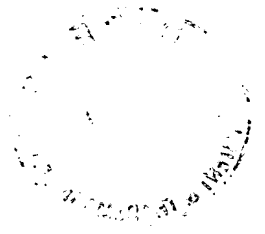
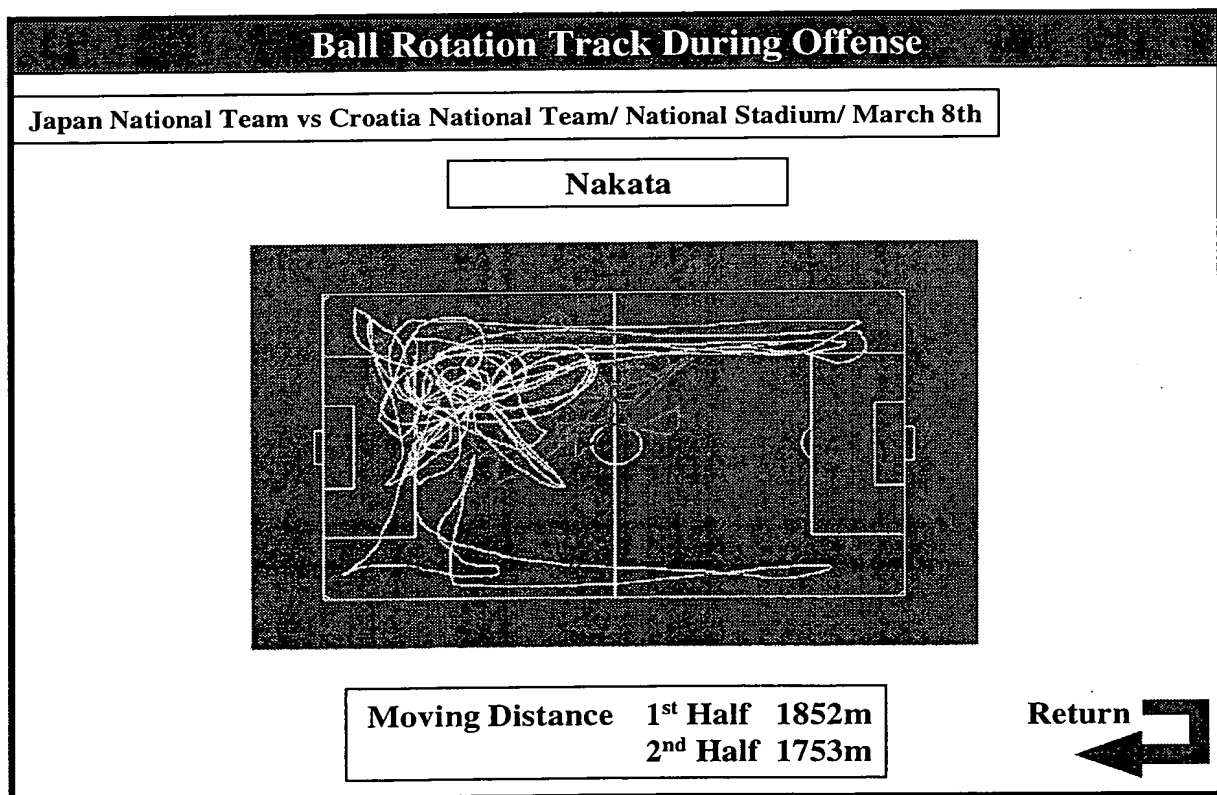


FIG. 78



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FIG. 95

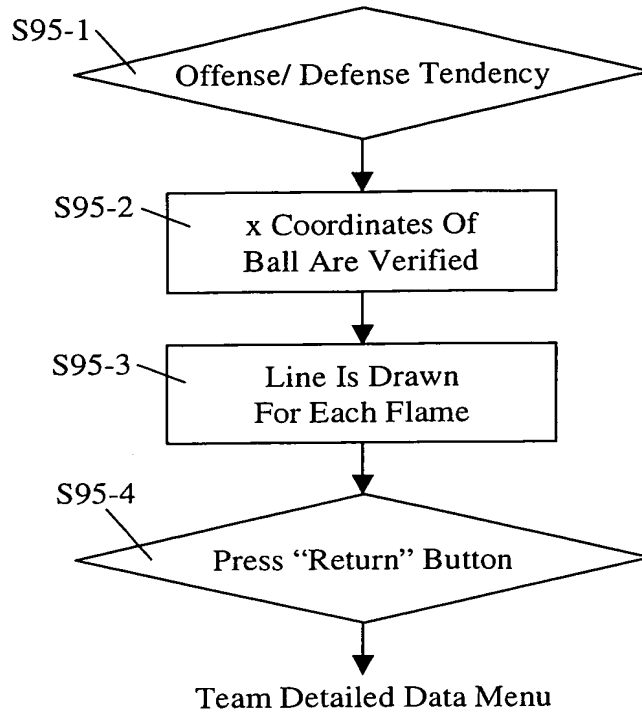
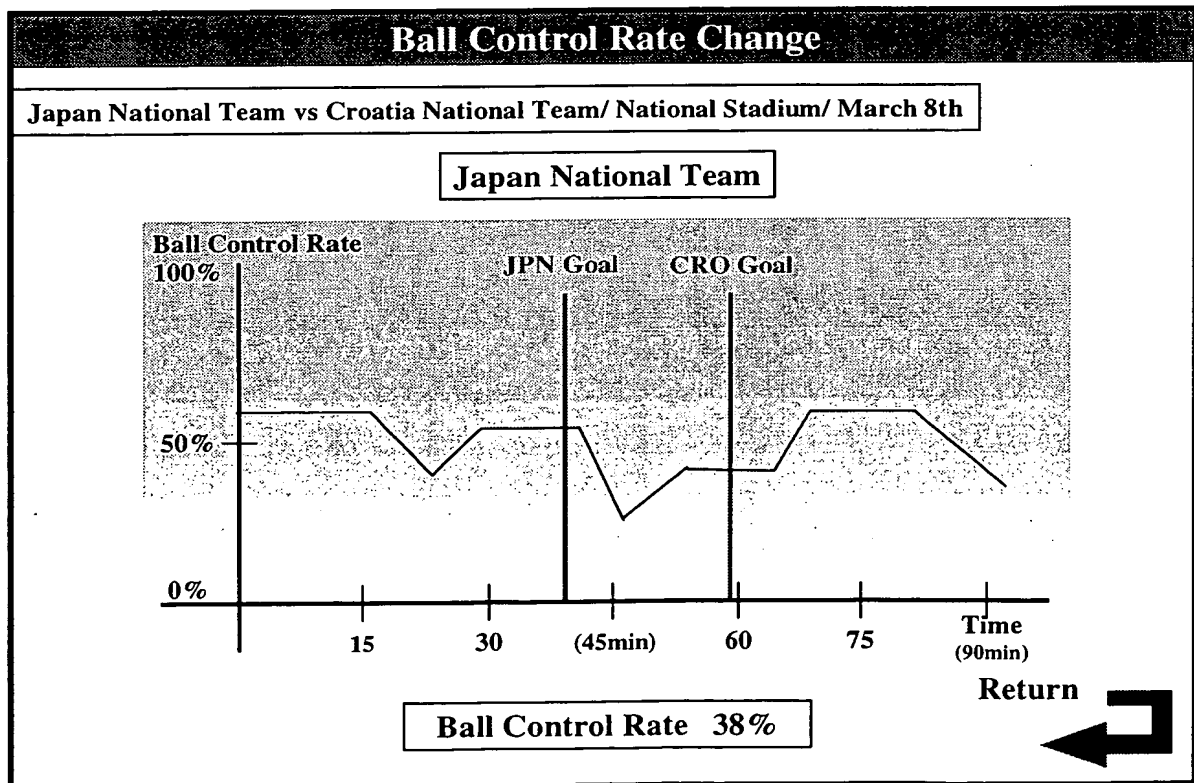


FIG. 96



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FIG. 97

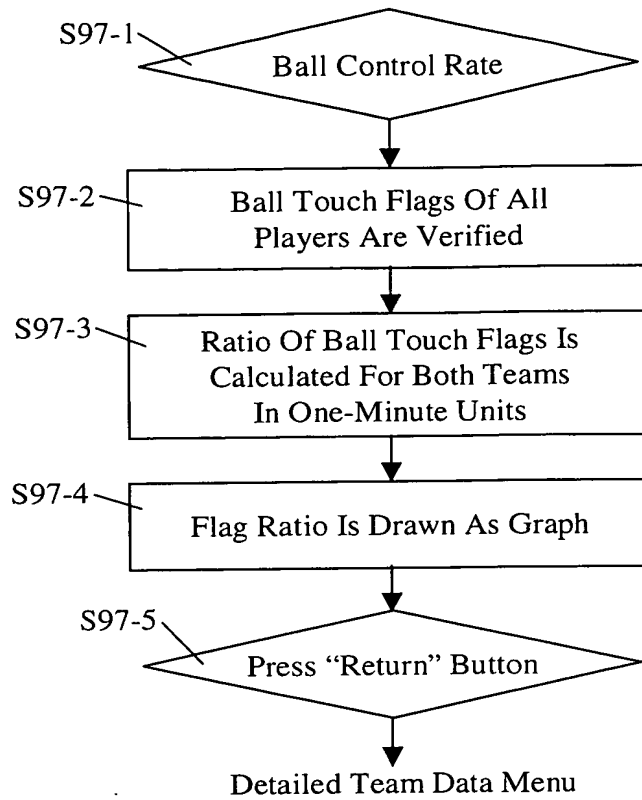



FIG. 98

| Ball Control Rate By Zone | | | | |
|---|-----|-------|---------|--|
| Japan National Team vs Croatia National Team/ National Stadium/ March 8th | | | | |
| BALL CONTROL RATE
AREA | | JAPAN | CROATIA | |
| | | 38% | 62% | |
| AREA A | 28% | 35% | 65% | |
| AREA B | 35% | 42% | 58% | |
| AREA C | 22% | 60% | 40% | |
| AREA D | 15% | 22% | 78% | |

Return 

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FIG. 99

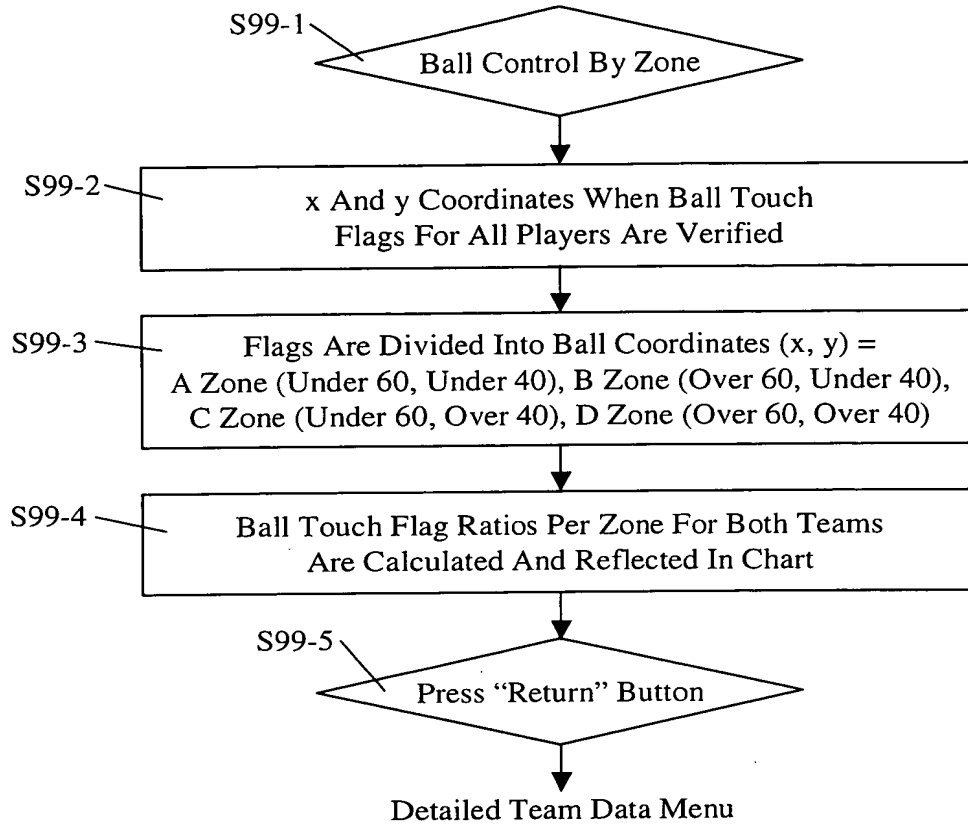


FIG. 100

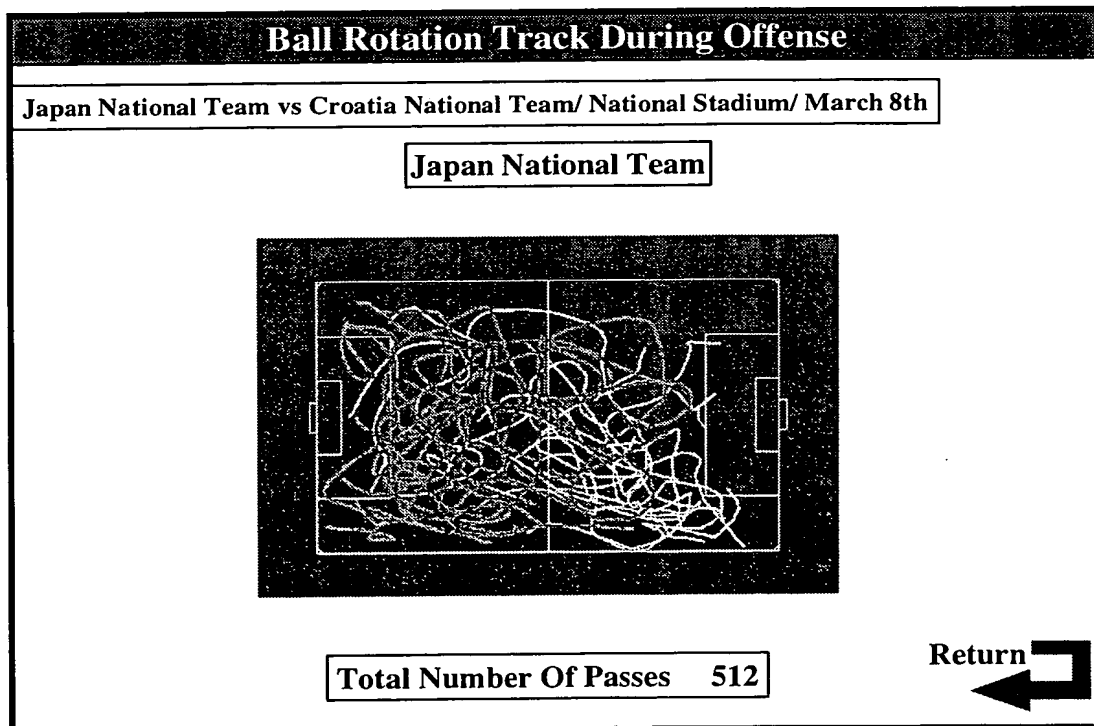


FIG. 101

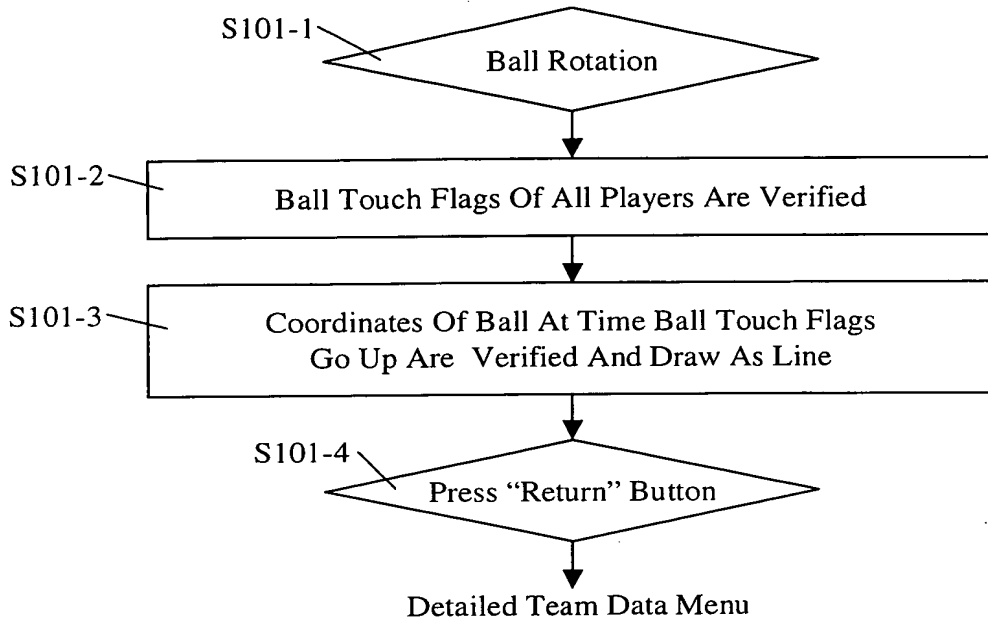


FIG. 102

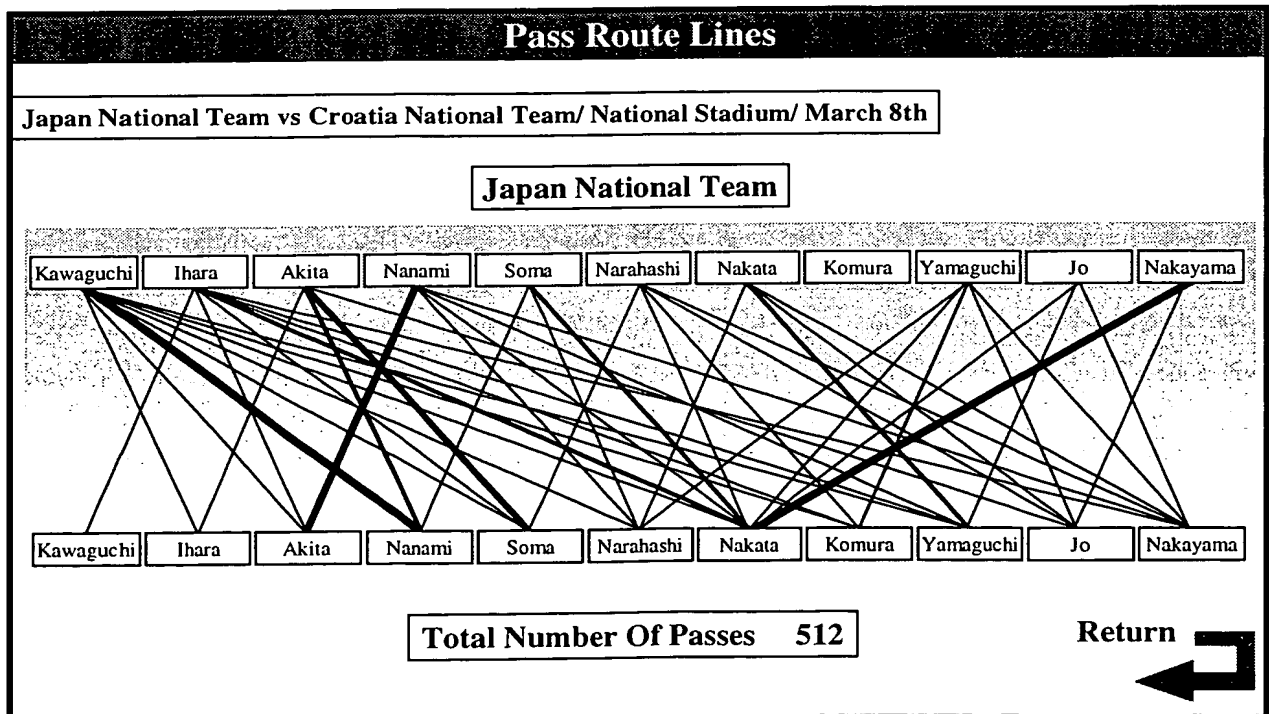


FIG. 103

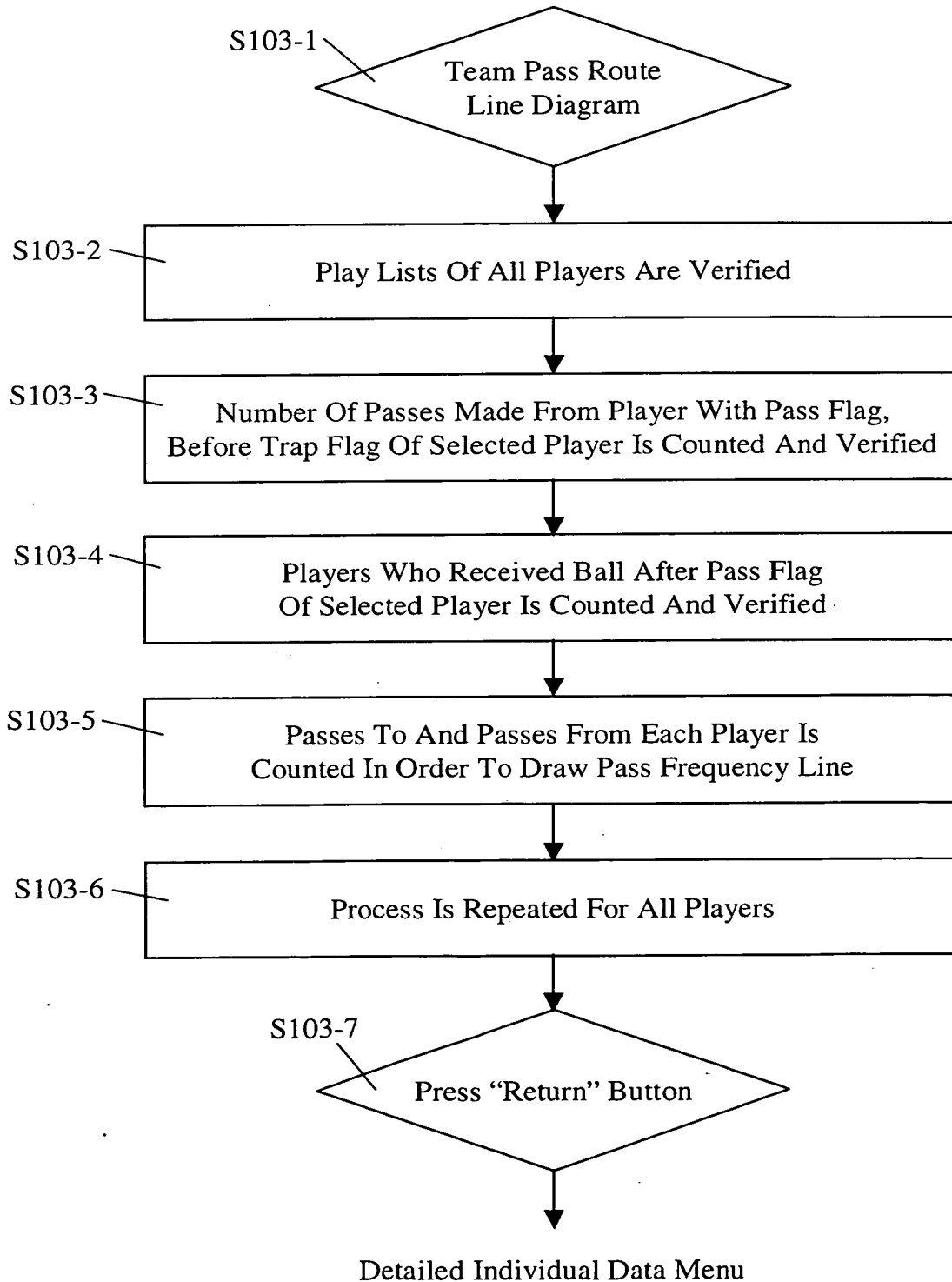


FIG. 104

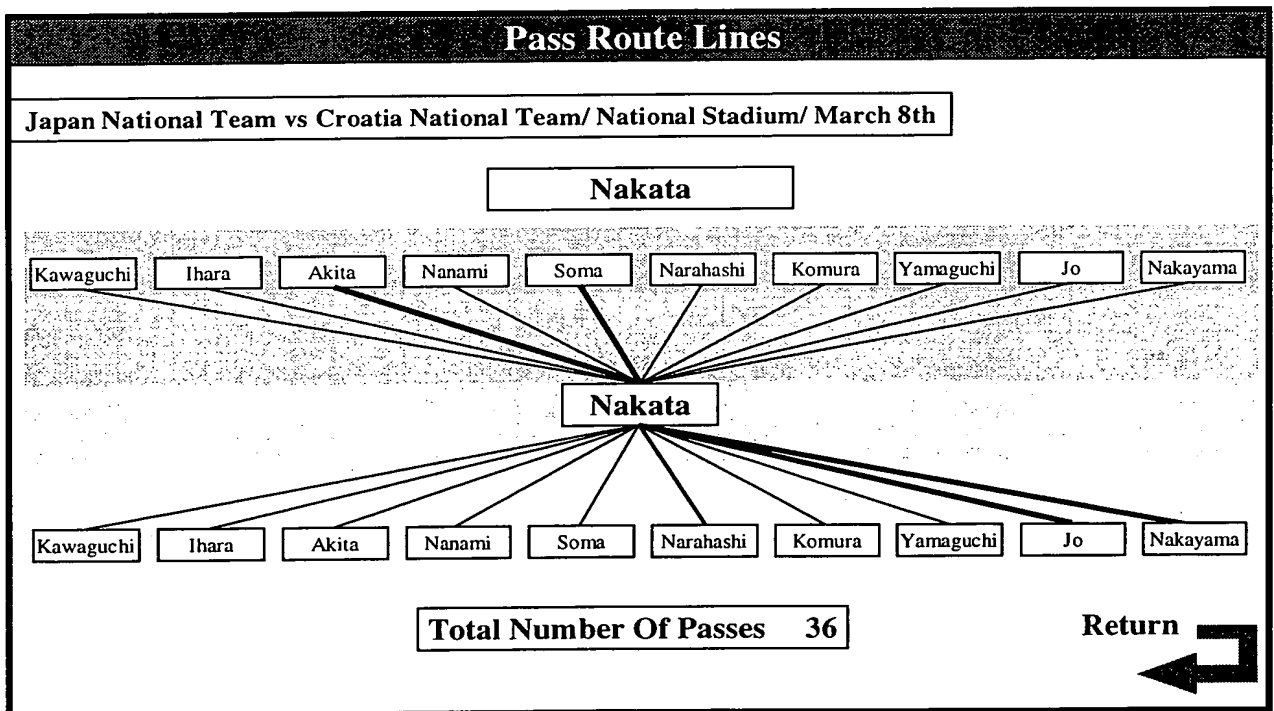


FIG. 105

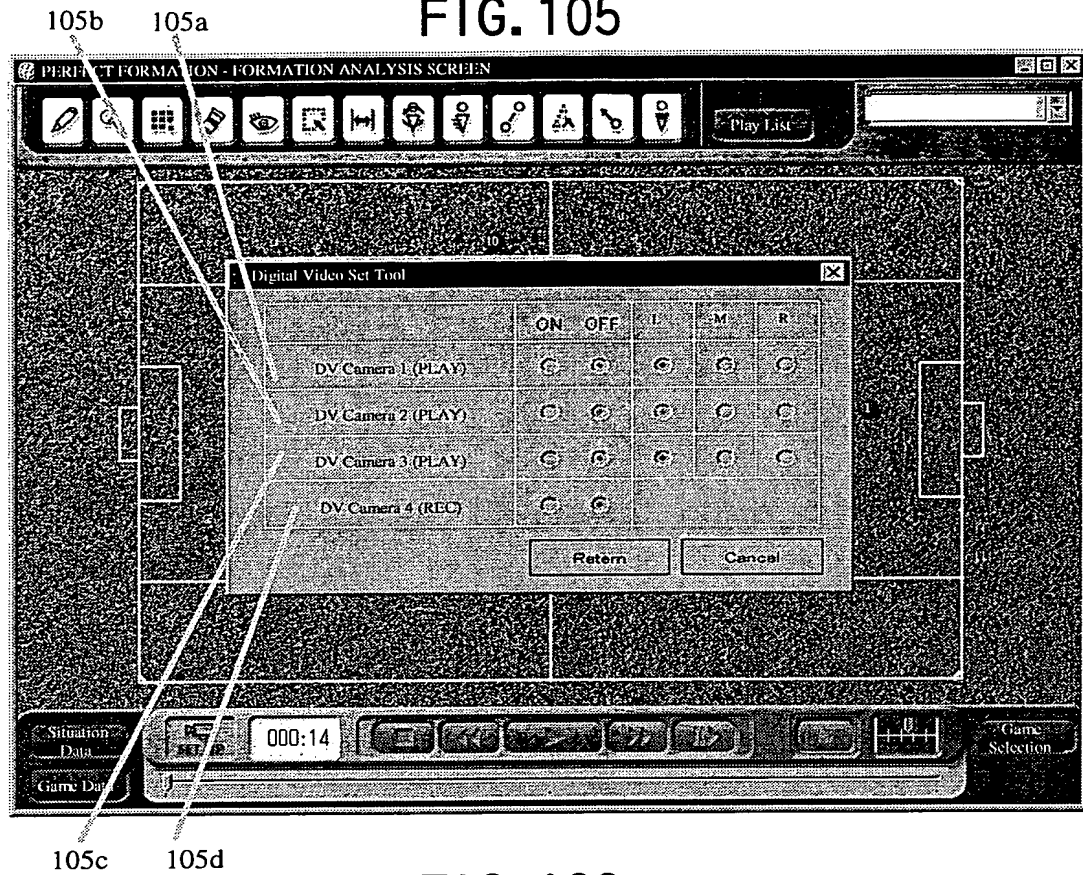
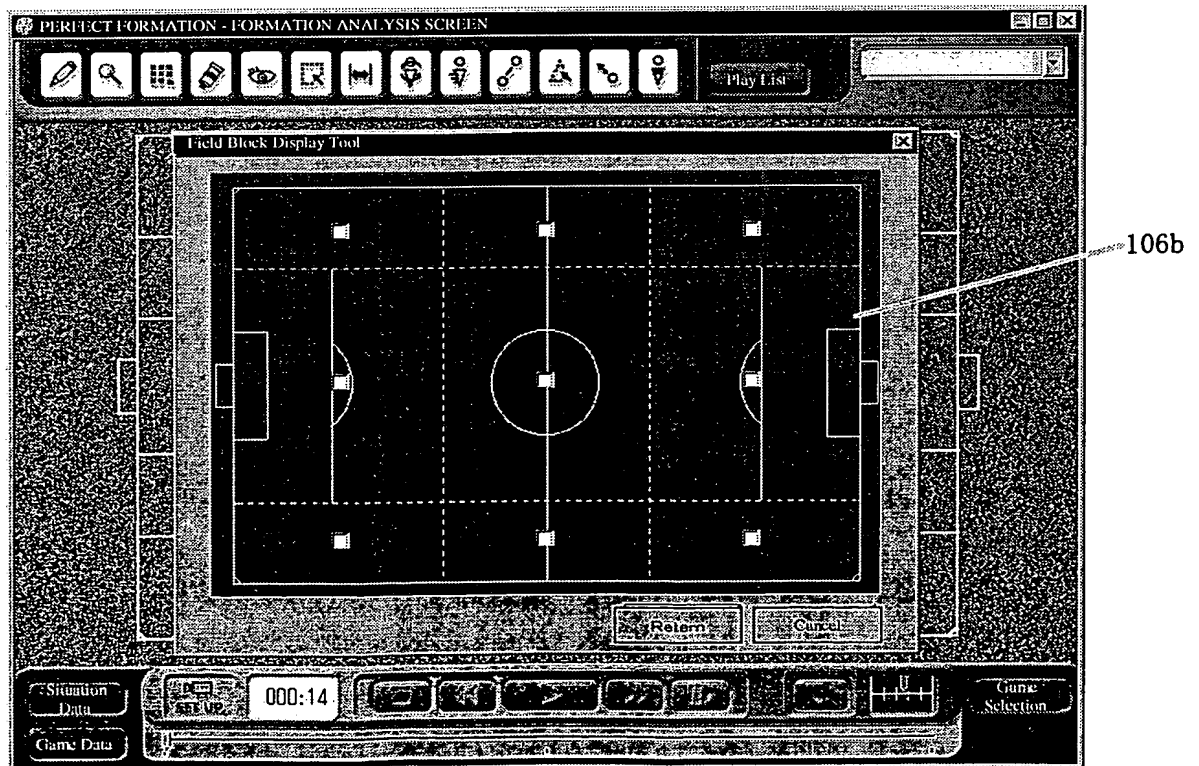


FIG. 106



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FIG. 107

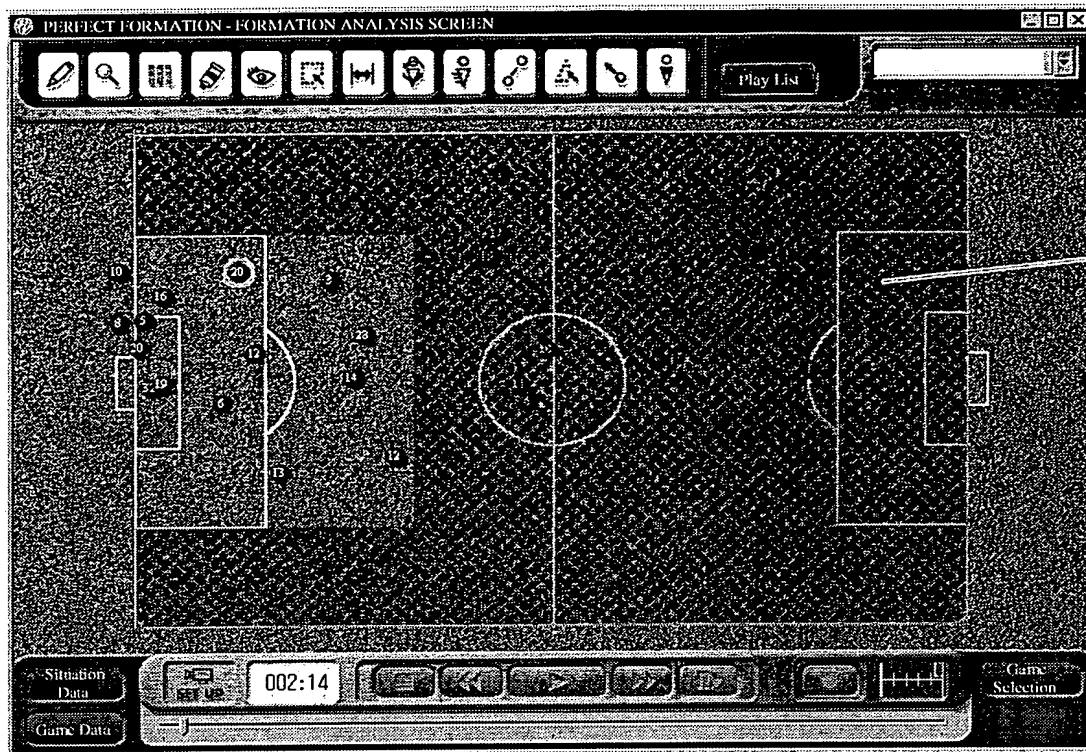


FIG. 108

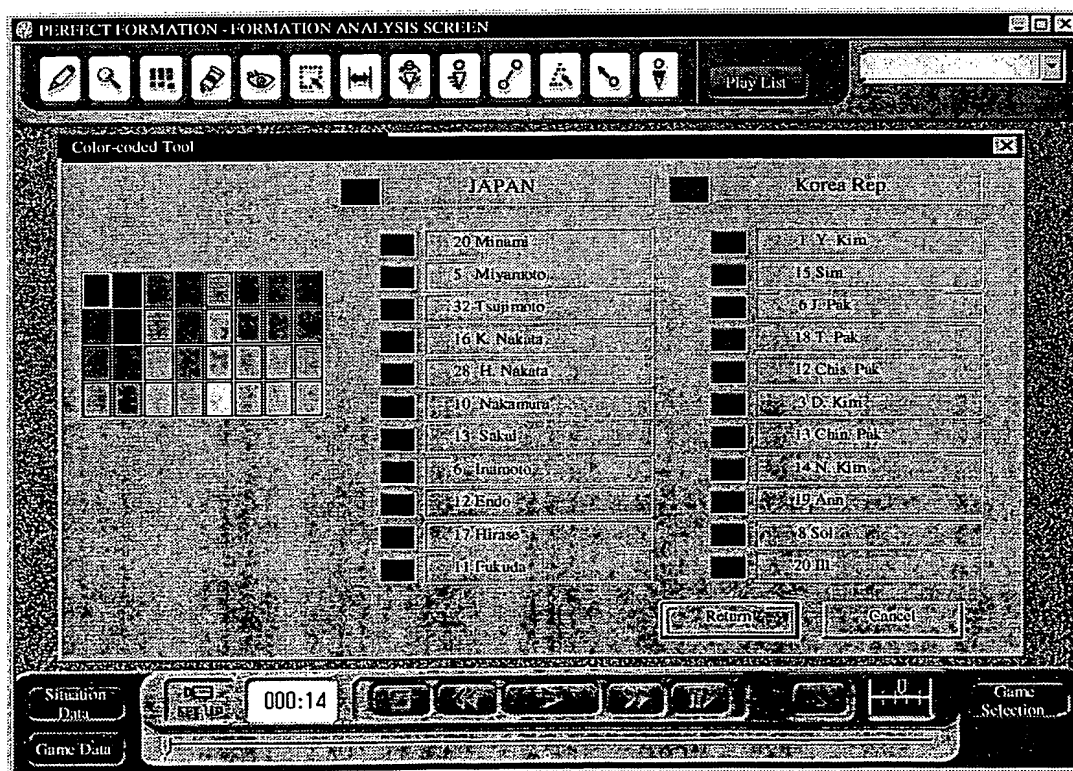


FIG. 109

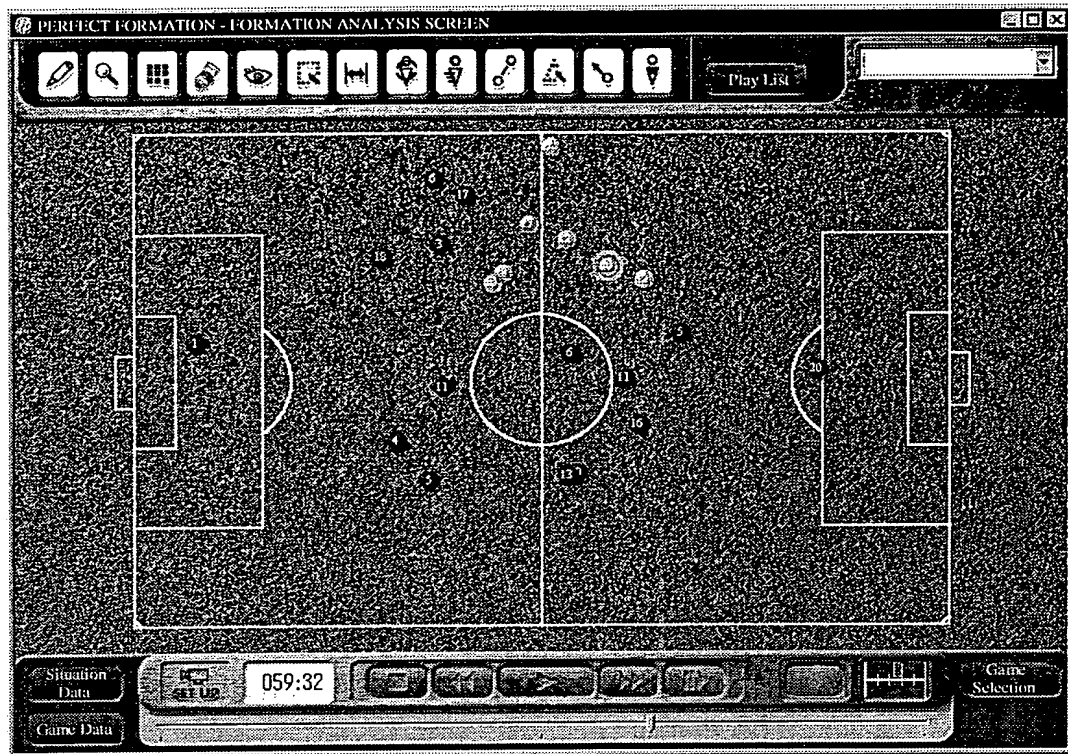
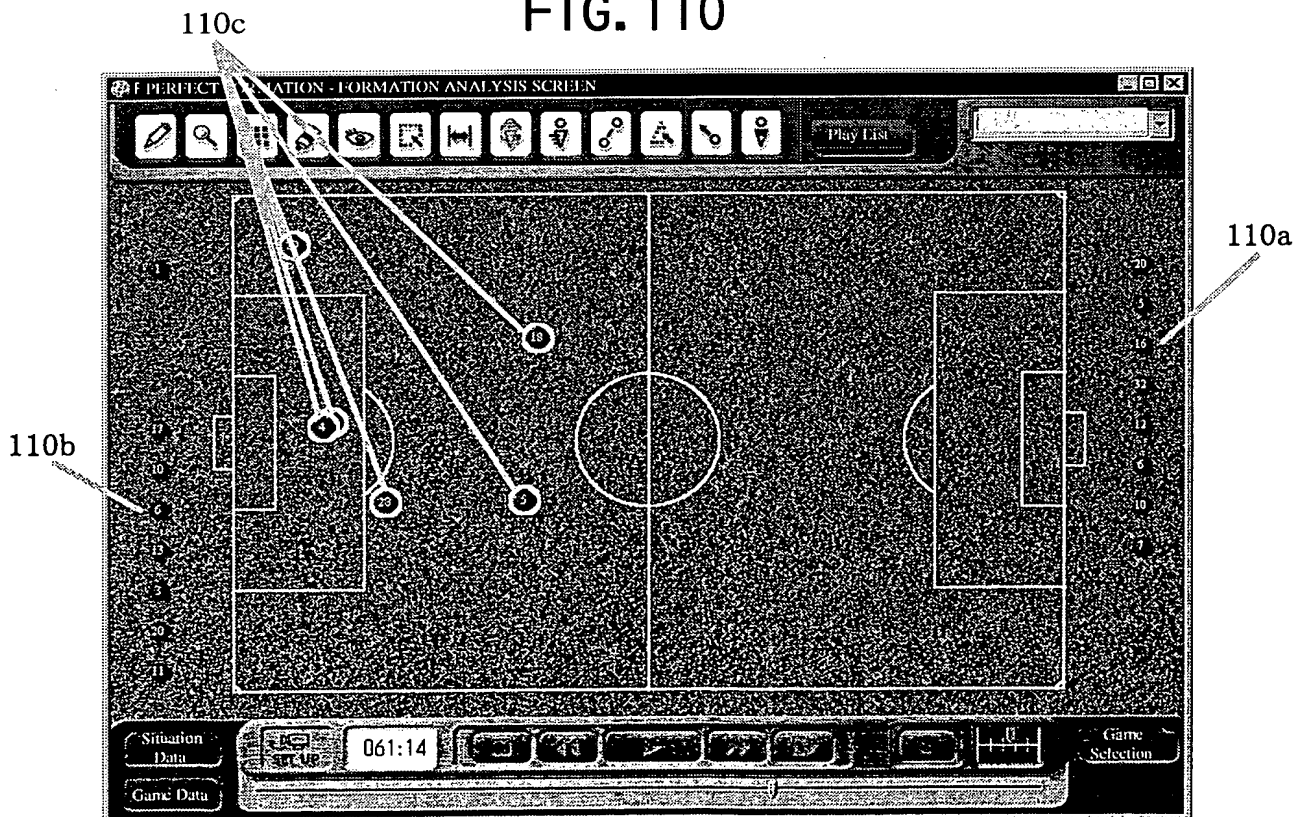


FIG. 110



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FIG. 111

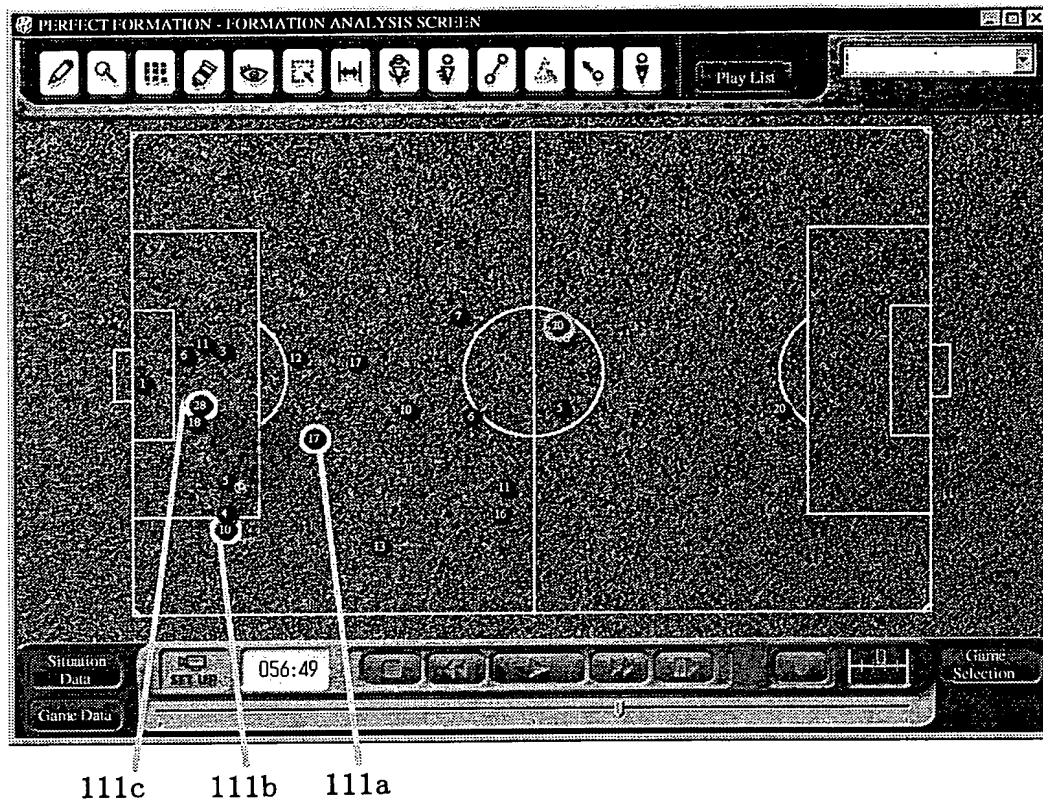
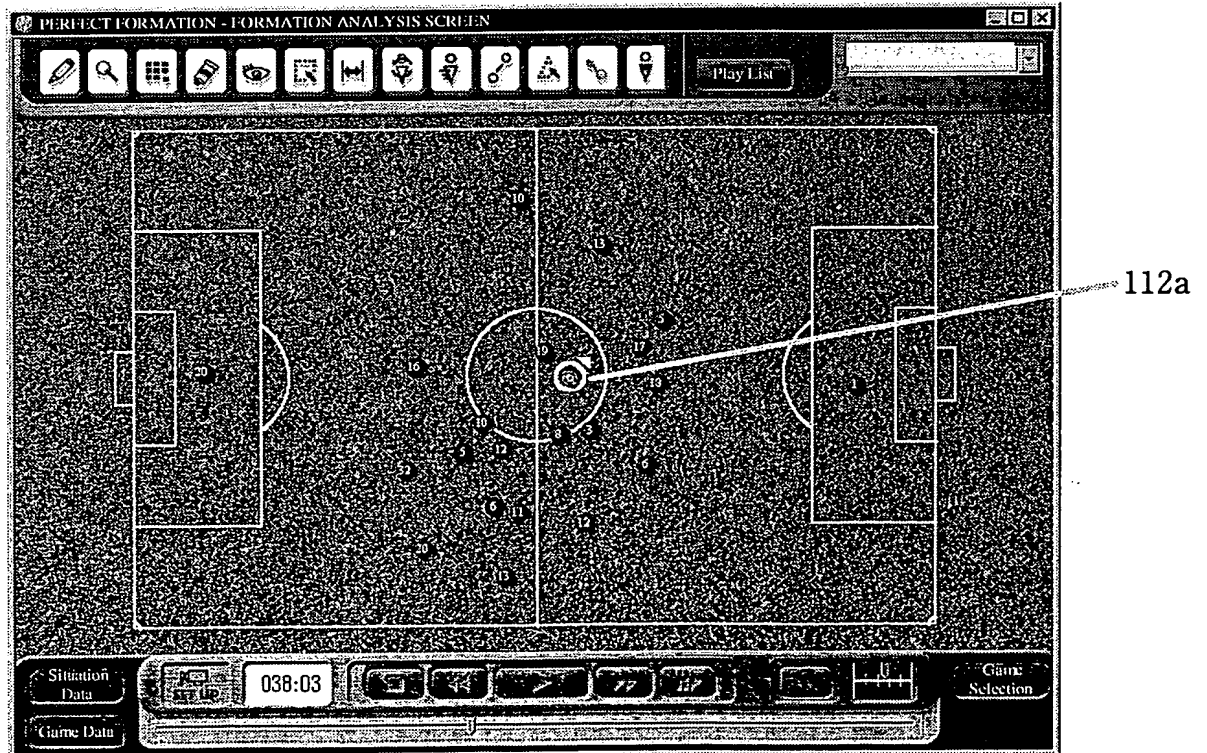


FIG. 112



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FIG. 113

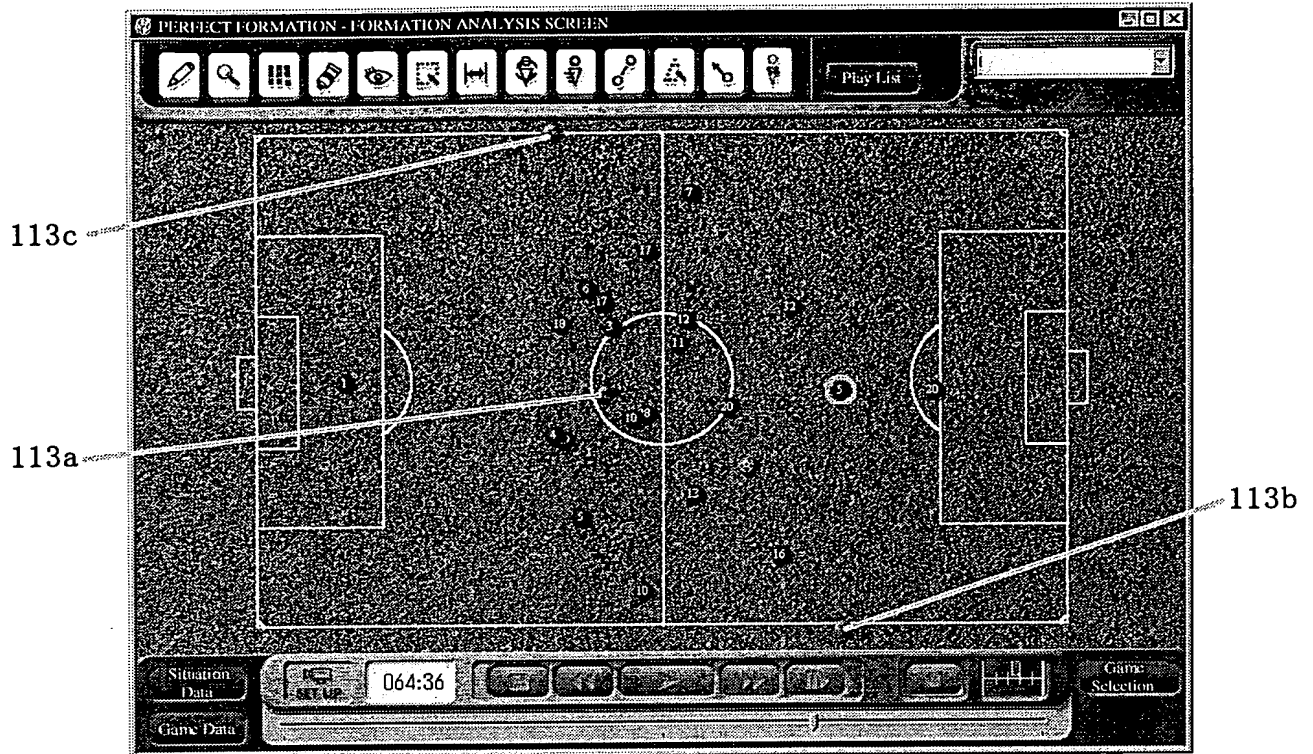
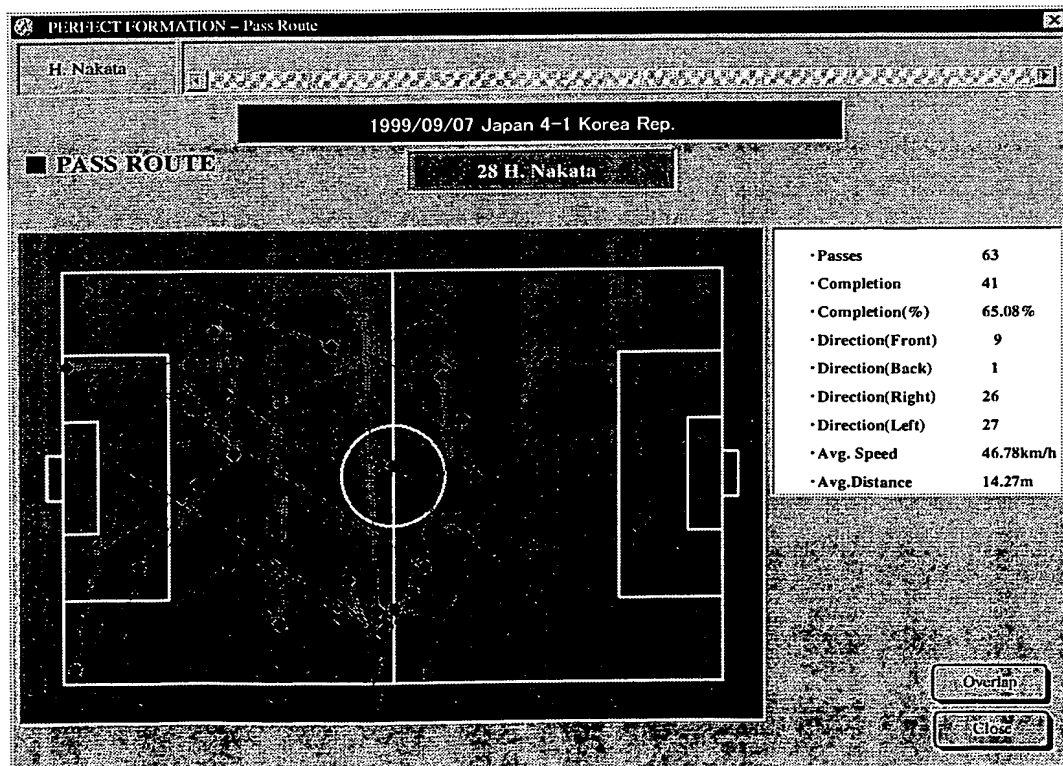


FIG. 114



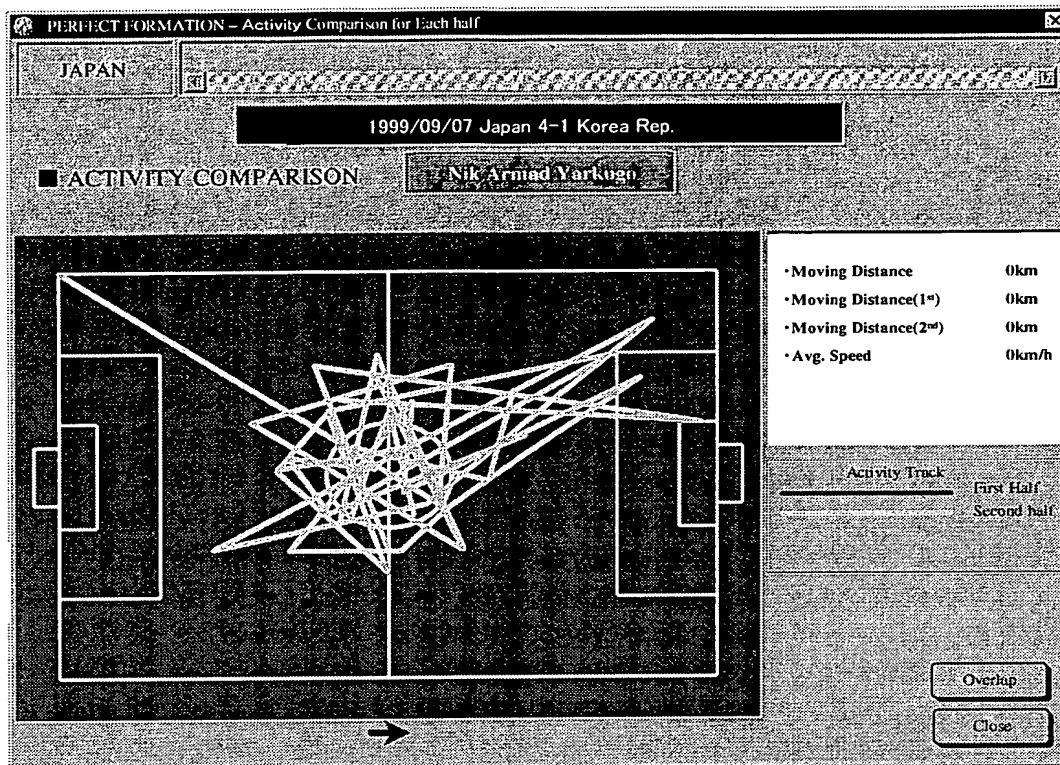
[illegible]

FIG. 116

